

## Semiconductor Fuses

150 – 1300 VAC • Very Fast Acting • 1 – 6000 Amperes



### Semiconductor Fuses

Littelfuse Semiconductor fuses are very fast acting fuses designed specifically for the protection of diodes, thyristors, triacs, and other solid-state power semiconductor devices. These fuses are used in power electronic applications including variable speed drives, power rectifiers, UPS systems, and DC power supplies. They can be used wherever extremely fast acting, current-limiting fuses are needed to provide superior protection against the potentially damaging effects of short-circuit currents.

The extensive line of Littelfuse Semiconductor fuses includes the traditional round body fuses, enhanced state-of-the-art round body fuses, and North American style square body fuses. Available ratings range from 150 to 1300 volts and up to 6000 amps.

### Applications

Semiconductor fuses are designed specifically for supplementary protection of semiconducting devices such as silicon controlled rectifiers (SCR's), diodes, thyristors, triacs, transistors, and similar solid-state devices. These devices are used in power equipment including variable speed drives, power rectifiers, UPS systems, DC power supplies, and in a wide range of electronic equipment.

May be used wherever extremely fast acting, current-limiting fuses with no time-delay are required.

### Features & Benefits

- Extremely current-limiting
- Low  $I^2t$  and peak let-through currents
- Low watts loss
- High Interrupting ratings
- UL Recognized
- Wide range of ampere ratings
- Optional mounting types
- DC ratings
- Superior cycling abilities
- Compact sizes
- Optional blown fuse indicators

### Ratings

|        |            |
|--------|------------|
| 150V:  | 1 – 6000A  |
| 250V:  | 1 – 4500A  |
| 300V:  | 35 – 4500A |
| 500V:  | 10 – 1200A |
| 600V:  | 1 – 2000A  |
| 700V:  | 6 – 2500A  |
| 1000V: | 15 – 1000A |
| 1200V: | 1 – 30A    |
| 1300V: | 50 – 1800A |

### Recommended Fuse Blocks:

LSCR and 1LS series: Refer to the Blocks & Holders section of this catalog for additional information.



## Traditional Semiconductor Fuses

150/250/500/600/700 VAC • Very Fast Acting • 1 – 1200 Amperes

| Ampere Ratings | Series & Voltage                                                    |                                                                       |                                   |                        |                        |                                    |
|----------------|---------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------|------------------------|------------------------|------------------------------------|
|                | <b>L15S</b><br>150V AC<br>150V DC (1 – 60A)<br>100V DC (70 – 1000A) | <b>L25S*</b><br>250V AC<br>250V DC (1 – 200A)<br>200V DC (225 – 800A) | <b>L50S</b><br>500V AC<br>450V DC | <b>L60S</b><br>600V AC | <b>KLC‡</b><br>600V AC | <b>L70S*</b><br>700V AC<br>650V DC |
| 1              | L15S 1                                                              | L25S 1                                                                | –                                 | L60S 1                 | KLC 1                  | –                                  |
| 2              | L15S 2                                                              | L25S 2                                                                | –                                 | L60S 2                 | KLC 2                  | –                                  |
| 3              | L15S 3                                                              | L25S 3                                                                | –                                 | L60S 3                 | KLC 3                  | –                                  |
| 4              | L15S 4                                                              | L25S 4                                                                | –                                 | L60S 4                 | KLC 4                  | –                                  |
| 5              | L15S 5                                                              | L25S 5                                                                | –                                 | L60S 5                 | KLC 5                  | –                                  |
| 6              | L15S 6                                                              | L25S 6                                                                | –                                 | L60S 6                 | KLC 6                  | –                                  |
| 7              | L15S 7                                                              | –                                                                     | –                                 | –                      | KLC 7                  | –                                  |
| 8              | L15S 8                                                              | L25S 8                                                                | –                                 | L60S 8                 | KLC 8                  | –                                  |
| 9              | L15S 9                                                              | –                                                                     | –                                 | –                      | –                      | –                                  |
| 10             | L15S 10                                                             | L25S 10                                                               | L50S 10                           | L60S 10                | KLC 10                 | L70S 10                            |
| 12             | L15S 12                                                             | L25S 12                                                               | L50S 12                           | L60S 12                | KLC 12                 | –                                  |
| 15             | L15S 15                                                             | L25S 15                                                               | L50S 15                           | L60S 15                | KLC 15                 | L70S 15                            |
| 17½            | –                                                                   | –                                                                     | –                                 | L60S 17½               | KLC 17½                | –                                  |
| 20             | L15S 20                                                             | L25S 20                                                               | L50S 20                           | L60S 20                | KLC 20                 | L70S 20                            |
| 25             | L15S 25                                                             | L25S 25                                                               | L50S 25                           | L60S 25                | KLC 25                 | L70S 25                            |
| 30             | L15S 30                                                             | L25S 30                                                               | L50S 30                           | L60S 30                | KLC 30                 | L70S 30                            |
| 35             | L15S 35                                                             | L25S 35                                                               | L50S 35                           | L60S 35                | KLC 35                 | L70S 35                            |
| 40             | L15S 40                                                             | L25S 40                                                               | L50S 40                           | L60S 40                | KLC 40                 | L70S 40                            |
| 45             | L15S 45                                                             | L25S 45                                                               | –                                 | L60S 45                | KLC 45                 | –                                  |
| 50             | L15S 50                                                             | L25S 50                                                               | L50S 50                           | L60S 50                | KLC 50                 | L70S 50                            |
| 60             | L15S 60                                                             | L25S 60                                                               | L50S 60                           | L60S 60                | KLC 60                 | L70S 60                            |
| 70             | L15S 70                                                             | L25S 70                                                               | L50S 70                           | L60S 70                | KLC 70                 | L70S 70                            |
| 80             | L15S 80                                                             | L25S 80                                                               | L50S 80                           | L60S 80                | KLC 80                 | L70S 80                            |
| 90             | L15S 90                                                             | L25S 90                                                               | L50S 90                           | L60S 90                | KLC 90                 | L70S 90                            |
| 100            | L15S 100                                                            | L25S 100                                                              | L50S 100                          | L60S 100               | KLC 100                | L70S 100                           |
| 110            | –                                                                   | –                                                                     | –                                 | –                      | KLC 110                | –                                  |
| 125            | L15S 125                                                            | L25S 125                                                              | L50S 125                          | L60S 125               | KLC 125                | L70S 125                           |
| 150            | L15S 150                                                            | L25S 150                                                              | L50S 150                          | L60S 150               | KLC 150                | L70S 150                           |
| 175            | –                                                                   | L25S 175                                                              | L50S 175                          | L60S 175               | KLC 175                | L70S 175                           |
| 200            | L15S 200                                                            | L25S 200                                                              | L50S 200                          | L60S 200               | KLC 200                | L70S 200                           |
| 225            | –                                                                   | L25S 225                                                              | L50S 225                          | L60S 225               | KLC 225                | L70S 225                           |
| 250            | L15S 250                                                            | L25S 250                                                              | L50S 250                          | L60S 250               | KLC 250                | L70S 250                           |
| 275            | –                                                                   | L25S 275                                                              | L50S 275                          | –                      | –                      | –                                  |
| 300            | L15S 300                                                            | L25S 300                                                              | L50S 300                          | L60S 300               | KLC 300                | L70S 300                           |
| 350            | L15S 350                                                            | L25S 350                                                              | L50S 350                          | L60S 350               | KLC 350                | L70S 350                           |
| 400            | L15S 400                                                            | L25S 400                                                              | L50S 400                          | L60S 400               | KLC 400                | L70S 400                           |
| 450            | L15S 450                                                            | L25S 450                                                              | L50S 450                          | L60S 450               | KLC 450                | L70S 450                           |
| 500            | L15S 500                                                            | L25S 500                                                              | L50S 500                          | L60S 500               | KLC 500                | L70S 500                           |
| 550            | –                                                                   | –                                                                     | L50S 550                          | –                      | –                      | –                                  |
| 600            | L15S 600                                                            | L25S 600                                                              | L50S 600                          | L60S 600               | KLC 600                | L70S 600                           |
| 700            | –                                                                   | L25S 700                                                              | L50S 700                          | L60S 700               | KLC 700                | L70S 700                           |
| 800            | L15S 800                                                            | L25S 800                                                              | L50S 800                          | L60S 800               | KLC 800                | L70S 800                           |
| 900            | –                                                                   | –                                                                     | LA50P9004                         | –                      | –                      | LA70P9004                          |
| 1000           | L15S 1000                                                           | –                                                                     | LA50P10004                        | –                      | –                      | LA70P10004                         |
| 1200           | –                                                                   | –                                                                     | LA50P12004                        | –                      | –                      | LA70P12004                         |

‡ KLC series fuses are recommended for replacement use only.

### Specifications

#### Voltage Ratings:

|       |                                                                        |
|-------|------------------------------------------------------------------------|
| L15S: | 150 V AC/DC (1 – 60A)<br>150 VAC (70 – 1000A)<br>100 VDC (70 – 1000A)  |
| L25S: | 250 V AC/DC (1 – 200A)<br>250 VAC (225 – 800A)<br>200 VDC (225 – 800A) |
| L50S: | 500 VAC/450 VDC                                                        |
| L60S: | 600 VAC                                                                |
| KLC:  | 600 VAC                                                                |
| L70S: | 700VAC/650VDC                                                          |

#### Interrupting Rating:

|     |                                               |
|-----|-----------------------------------------------|
| AC: | 200,000 rms amperes<br>(L15S series 100,000A) |
| DC: | 20,000 amperes                                |

#### Ampere Range:

1 – 1200 amperes  
See Rating Table for ratings available in each series.

#### Approvals:

UL Recognized under the Components Program and CSA Recognized under the Component Acceptance Program.  
UL File No: E71611  
CSA File No: LR29862  
L25S series fuses are Littelfuse Certified for DC ratings shown in Rating Table.

*\*For availability of RoHS compliant product, call 1-800-TEC-FUSE.*

## Traditional Semiconductor Fuses

150/250/500/600/700 VAC • Very Fast Acting • 1 – 1000 Amperes



**L15S SERIES, 150 VOLTS AC**  
(Replaces KLA, K LW, L13S)

| Ampere Rating | Fig. No. | Dimensions in Inches (mm in parentheses) |              |              |              |              |              |              |            |
|---------------|----------|------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|
|               |          | A                                        | B            | C            | D            | E            | F            | G            | H          |
| 1 – 30        | 1        | 1½<br>(38.1)                             | —            | ¾<br>(9.5)   | 1⅜<br>(10.3) | —            | —            | —            | —          |
| 31 – 60       | 1        | 2<br>(50.8)                              | —            | ⅝<br>(15.9)  | 1⅜<br>(20.6) | —            | —            | —            | —          |
| 61 – 450      | 3        | 1⅝<br>(29.4)                             | 1⅞<br>(47.6) | 2⅜<br>(55.6) | 2⅜<br>(67.5) | 1<br>(25.4)  | 4⅜<br>(17.1) | ⅝<br>(7.9)   | ¾<br>(4.8) |
| 451 – 1000    | 3        | 1¼<br>(31.8)                             | 1⅝<br>(49.2) | 2⅞<br>(65.1) | 3½<br>(88.9) | 1½<br>(38.1) | 1<br>(25.4)  | 1⅜<br>(10.3) | ¼<br>(6.4) |



**L25S SERIES, 250 VOLTS AC**  
(Replaces KLB)

| Ampere Rating | Fig. No. | Dimensions in Inches (mm in parentheses) |              |              |              |              |              |              |            |
|---------------|----------|------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|
|               |          | A                                        | B            | C            | D            | E            | F            | G            | H          |
| 1 – 30        | 1        | 2<br>(50.8)                              | —            | ½<br>(12.7)  | ⅞<br>(14.3)  | —            | —            | —            | —          |
| 31 – 60       | 2        | 1⅝<br>(41.3)                             | 2¼<br>(57.2) | 2½<br>(63.5) | 3⅜<br>(81.0) | 1⅜<br>(20.6) | 2⅜<br>(18.3) | 1⅜<br>(8.7)  | ⅞<br>(3.2) |
| 61 – 200      | 3        | 1⅝<br>(41.3)                             | 2⅝<br>(58.7) | 2⅞<br>(61.9) | 3⅞<br>(79.4) | 1⅜<br>(31.0) | 1<br>(25.4)  | ⅝<br>(7.9)   | ¾<br>(4.8) |
| 201 – 700     | 3        | 1⅞<br>(40.5)                             | 2⅞<br>(57.9) | 2⅞<br>(73.8) | 3⅞<br>(97.6) | 1½<br>(38.1) | 1<br>(25.4)  | 1⅜<br>(10.3) | ¼<br>(6.4) |
| 701 – 800     | 3        | 1⅞<br>(40.5)                             | 2⅞<br>(57.9) | 2⅞<br>(73.8) | 3⅞<br>(97.6) | 2<br>(50.8)  | 1½<br>(38.1) | 1⅜<br>(10.3) | ¼<br>(6.4) |



**L50S SERIES, 500 VOLTS AC / 450 VOLTS DC**  
(Replaces KLH)

| Ampere Rating | Fig. No. | Dimensions in Inches (mm in parentheses) |               |               |               |              |              |              |            |
|---------------|----------|------------------------------------------|---------------|---------------|---------------|--------------|--------------|--------------|------------|
|               |          | A                                        | B             | C             | D             | E            | F            | G            | H          |
| 10 – 30       | 1        | 2<br>(50.8)                              | —             | ½<br>(12.7)   | ⅞<br>(14.3)   | —            | —            | —            | —          |
| 31 – 60       | 2        | 1⅝<br>(41.3)                             | 2¼<br>(57.2)  | 2½<br>(63.5)  | 3⅜<br>(81.0)  | 1⅜<br>(20.6) | 2⅜<br>(18.3) | 1⅜<br>(8.7)  | ⅞<br>(3.2) |
| 61 – 100      | 3        | 2⅞<br>(54.0)                             | 2⅞<br>(68.3)  | 3<br>(76.2)   | 3⅝<br>(92.1)  | 1<br>(25.4)  | ¾<br>(19.1)  | 1⅜<br>(8.7)  | ¾<br>(3.2) |
| 101 – 200     | 3        | 2⅞<br>(54.0)                             | 2⅞<br>(71.4)  | 2⅞<br>(74.6)  | 3⅝<br>(92.1)  | 1⅜<br>(31.0) | 1<br>(25.4)  | ⅝<br>(7.9)   | ¾<br>(4.8) |
| 201 – 400     | 3        | 2⅞<br>(53.2)                             | 2⅞<br>(70.6)  | 3⅞<br>(86.5)  | 4⅞<br>(110.3) | 1½<br>(38.1) | 1<br>(25.4)  | 1⅜<br>(10.3) | ¼<br>(6.4) |
| 401 – 600     | 3        | 2⅞<br>(56.4)                             | 2⅞<br>(73.8)  | 3⅞<br>(89.7)  | 4⅞<br>(113.5) | 2<br>(50.8)  | 1½<br>(38.1) | 1⅜<br>(10.3) | ¼<br>(6.4) |
| 601 – 800     | 3        | 2⅞<br>(56.4)                             | 4⅞<br>(108.7) | 4⅞<br>(117.5) | 6⅞<br>(164.3) | 2½<br>(63.5) | 2<br>(50.8)  | 1⅜<br>(13.5) | ¾<br>(9.5) |

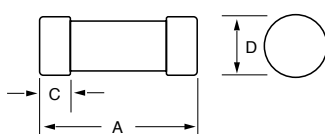


Fig. 1

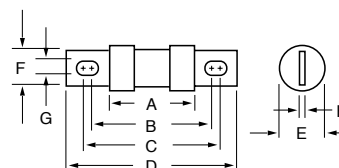


Fig. 2

Contact Littelfuse for characteristic curves.

## Traditional Semiconductor Fuses

150/250/500/600/700 VAC • Very Fast Acting • 1 – 1000 Amperes



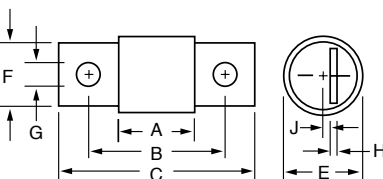
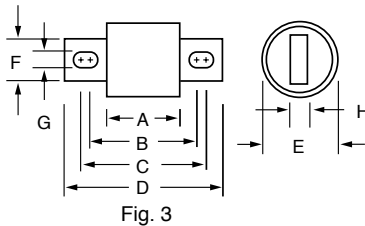
**L60S SERIES, 600 VOLTS AC**

| Ampere Rating | Fig. No. | Dimensions in Inches (mm in parentheses) |                             |                             |                             |                            |                           |                           |                         |
|---------------|----------|------------------------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------|---------------------------|---------------------------|-------------------------|
|               |          | A                                        | B                           | C                           | D                           | E                          | F                         | G                         | H                       |
| 1 – 30        | 1        | 5<br>(127.0)                             | —                           | $\frac{5}{8}$<br>(15.9)     | $\frac{13}{16}$<br>(20.6)   | —                          | —                         | —                         | —                       |
| 31 – 60       | 2        | $2\frac{25}{32}$<br>(70.6)               | $3\frac{1}{16}$<br>(87.3)   | $3\frac{11}{16}$<br>(93.7)  | $4\frac{3}{8}$<br>(111.1)   | $\frac{13}{16}$<br>(20.6)  | $\frac{23}{32}$<br>(18.3) | $\frac{11}{32}$<br>(8.7)  | $\frac{1}{8}$<br>(3.2)  |
| 61 – 100      | 2        | $2\frac{29}{32}$<br>(73.8)               | $3\frac{17}{32}$<br>(89.7)  | $3\frac{25}{32}$<br>(96.0)  | $4\frac{15}{32}$<br>(113.5) | $1\frac{1}{16}$<br>(27.0)  | $\frac{23}{32}$<br>(18.3) | $\frac{11}{32}$<br>(8.7)  | $\frac{1}{8}$<br>(3.2)  |
| 101 – 200     | 2        | $2\frac{29}{32}$<br>(73.8)               | $3\frac{9}{16}$<br>(90.5)   | $3\frac{3}{4}$<br>(95.3)    | $4\frac{13}{32}$<br>(111.9) | $1\frac{5}{16}$<br>(33.3)  | 1<br>(25.4)               | $\frac{5}{16}$<br>(7.9)   | $\frac{3}{16}$<br>(4.8) |
| 201 – 400     | 2        | $2\frac{29}{32}$<br>(73.8)               | $3\frac{31}{32}$<br>(100.8) | $4\frac{5}{32}$<br>(105.6)  | $5\frac{1}{8}$<br>(130.2)   | $1\frac{37}{64}$<br>(40.1) | 1<br>(25.4)               | $\frac{13}{32}$<br>(10.3) | $\frac{1}{4}$<br>(6.4)  |
| 401 – 600     | 2        | $2\frac{7}{8}$<br>(73.0)                 | $3\frac{31}{32}$<br>(100.8) | $4\frac{9}{64}$<br>(105.2)  | $5\frac{1}{8}$<br>(130.2)   | $2\frac{1}{16}$<br>(52.8)  | $1\frac{1}{2}$<br>(38.1)  | $\frac{13}{32}$<br>(10.3) | $\frac{1}{4}$<br>(6.4)  |
| 601 – 800     | 2        | $3\frac{1}{32}$<br>(77.0)                | $5\frac{5}{32}$<br>(133.4)  | $5\frac{11}{32}$<br>(135.7) | $7\frac{1}{4}$<br>(184.2)   | $2\frac{1}{2}$<br>(63.5)   | 2<br>(50.8)               | $\frac{17}{32}$<br>(13.5) | $\frac{3}{8}$<br>(9.5)  |



**L70S SERIES, 700 VOLTS AC / 650 VOLTS DC**

| Ampere Rating | Fig. No. | Dimensions in Inches (mm in parentheses) |                             |                             |                            |                           |                           |                           |                         |                         |
|---------------|----------|------------------------------------------|-----------------------------|-----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|-------------------------|-------------------------|
|               |          | A                                        | B                           | C                           | D                          | E                         | F                         | G                         | H                       | J                       |
| 10 – 30       | 1        | 2<br>(50.8)                              | —                           | $\frac{1}{2}$<br>(12.7)     | $\frac{9}{16}$<br>(14.3)   | —                         | —                         | —                         | —                       | —                       |
| 31 – 60       | 3        | $2\frac{7}{8}$<br>(73.0)                 | $3\frac{7}{16}$<br>(87.3)   | $3\frac{25}{32}$<br>(96.0)  | $4\frac{3}{8}$<br>(111.1)  | 1<br>(25.4)               | $\frac{43}{64}$<br>(17.1) | $\frac{11}{32}$<br>(8.7)  | $\frac{1}{8}$<br>(3.2)  | —                       |
| 61 – 100      | 3        | $2\frac{7}{8}$<br>(73.0)                 | $3\frac{9}{16}$<br>(90.5)   | $3\frac{11}{16}$<br>(93.7)  | $4\frac{3}{8}$<br>(111.1)  | $1\frac{7}{32}$<br>(31.0) | $\frac{29}{32}$<br>(22.9) | $\frac{5}{16}$<br>(7.9)   | $\frac{3}{16}$<br>(4.8) | —                       |
| 101 – 200     | 3        | $2\frac{27}{32}$<br>(72.2)               | $3\frac{17}{32}$<br>(89.7)  | $4\frac{5}{32}$<br>(105.6)  | $5\frac{3}{32}$<br>(129.4) | $1\frac{1}{2}$<br>(38.1)  | 1<br>(25.4)               | $\frac{13}{32}$<br>(10.3) | $\frac{1}{4}$<br>(6.4)  | —                       |
| 201 – 400     | 3        | $2\frac{27}{32}$<br>(72.2)               | $3\frac{17}{32}$<br>(89.7)  | $4\frac{5}{32}$<br>(105.6)  | $5\frac{3}{32}$<br>(129.4) | 2<br>(50.8)               | $1\frac{1}{2}$<br>(38.1)  | $\frac{13}{32}$<br>(10.3) | $\frac{1}{4}$<br>(6.4)  | —                       |
| 401 – 600     | 3        | $2\frac{27}{32}$<br>(72.2)               | $4\frac{29}{32}$<br>(124.6) | $5\frac{1}{4}$<br>(133.4)   | $7\frac{3}{32}$<br>(180.2) | $2\frac{1}{2}$<br>(63.5)  | 2<br>(50.8)               | $\frac{17}{32}$<br>(13.5) | $\frac{3}{8}$<br>(9.5)  | —                       |
| 601 – 800     | 4        | $3\frac{5}{16}$<br>(84.1)                | $5\frac{5}{16}$<br>(134.9)  | $6\frac{13}{16}$<br>(173.0) | —                          | $2\frac{7}{8}$<br>(73.0)  | 2<br>(50.8)               | $\frac{5}{8}$<br>(15.9)   | $\frac{3}{8}$<br>(9.5)  | $\frac{5}{16}$<br>(7.9) |



**KLC SERIES, 600 VOLTS AC**

| Ampere Rating | Fig. No. | Dimensions in Inches (mm in parentheses) |                             |                             |                            |                           |                           |                           |                         |
|---------------|----------|------------------------------------------|-----------------------------|-----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|-------------------------|
|               |          | A                                        | B                           | C                           | D                          | E                         | F                         | G                         | H                       |
| 1 – 30        | 2        | $1\frac{1}{8}$<br>(47.6)                 | $2\frac{1}{2}$<br>(63.5)    | —                           | $2\frac{7}{8}$<br>(73.0)   | $\frac{9}{16}$<br>(14.3)  | $\frac{13}{32}$<br>(10.3) | $\frac{1}{4}$<br>(6.4)    | $\frac{3}{64}$<br>(1.2) |
| 31 – 60       | 2        | $2\frac{3}{4}$<br>(69.9)                 | $3\frac{3}{8}$<br>(85.7)    | $3\frac{5}{8}$<br>(92.1)    | $4\frac{5}{16}$<br>(109.5) | $\frac{13}{16}$<br>(20.6) | $\frac{23}{32}$<br>(18.3) | $\frac{11}{32}$<br>(8.7)  | $\frac{1}{8}$<br>(3.2)  |
| 61 – 100      | 3        | $2\frac{7}{8}$<br>(73.0)                 | $3\frac{21}{32}$<br>(92.9)  | $4\frac{1}{16}$<br>(103.2)  | 5<br>(127.0)               | 1<br>(25.4)               | $\frac{3}{4}$<br>(19.1)   | $\frac{13}{32}$<br>(10.3) | $\frac{1}{8}$<br>(3.2)  |
| 101 – 200     | 3        | $2\frac{27}{32}$<br>(72.2)               | $3\frac{17}{32}$<br>(89.7)  | $4\frac{3}{8}$<br>(111.1)   | $5\frac{3}{32}$<br>(129.4) | $1\frac{1}{2}$<br>(38.1)  | 1<br>(25.4)               | $\frac{13}{32}$<br>(10.3) | $\frac{1}{4}$<br>(6.4)  |
| 201 – 400     | 3        | $2\frac{27}{32}$<br>(72.2)               | $4\frac{21}{32}$<br>(118.3) | $4\frac{27}{32}$<br>(123.0) | $6\frac{1}{4}$<br>(158.8)  | 2<br>(50.8)               | $1\frac{5}{8}$<br>(41.3)  | $\frac{9}{16}$<br>(14.3)  | $\frac{1}{4}$<br>(6.4)  |
| 401 – 800     | 3        | $2\frac{27}{32}$<br>(72.2)               | $4\frac{21}{32}$<br>(118.3) | $5\frac{11}{32}$<br>(135.7) | $6\frac{1}{4}$<br>(158.8)  | $2\frac{1}{2}$<br>(63.5)  | 2<br>(50.8)               | $\frac{9}{16}$<br>(14.3)  | $\frac{3}{8}$<br>(9.5)  |

Contact Littelfuse for characteristic curves.

## LA15QS Semiconductor Fuses

150 VAC • Very Fast Acting • 1 – 6000 Amperes



Littelfuse LA15QS series Semiconductor fuses were designed for the specific protection of diodes and other semiconductor devices rated 150VAC/DC. The LA15QS product line compact design is perfect for those applications that have limitations on available space.

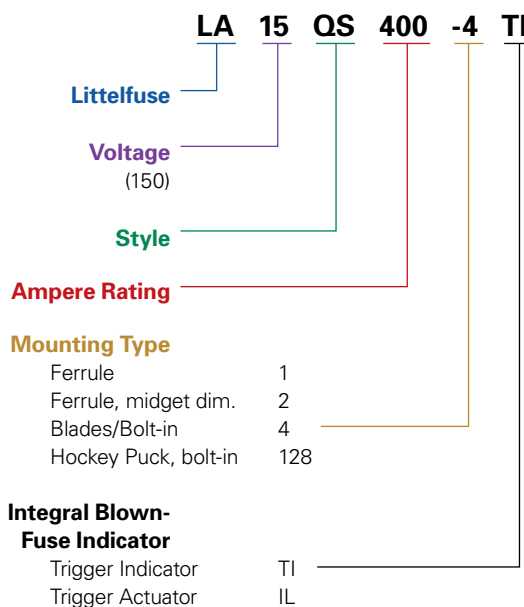
### Features

- Low  $I^2t$  minimizes damage to protected components on short-circuit.
- Controlled arc voltage reduces stress to circuit components during fuse clearing.
- Choice of mounting types provides options for unique termination requirements.
- Indicator options allow identification of blown fuses.

### Applications

Protection of heavy duty devices such as electromechanical rectifiers.

### Ordering Information



*Note: Mounting types and integral blown fuse indicators are optional for specified ratings.*

### Specifications

|                             |                                             |
|-----------------------------|---------------------------------------------|
| <b>Voltage Rating:</b>      | AC: 150 volts<br>DC: 150 volts              |
| <b>Interrupting Rating:</b> | 100,000 Amperes                             |
| <b>Ampere Range:</b>        | 1 – 6000 Amperes                            |
| <b>Approvals:</b>           | UL Recognized under the components program. |

Contact Littelfuse for characteristic curves.

## LA15QS Semiconductor Fuses

150 VAC • Very Fast Acting • 1 – 6000 Amperes

### Catalog Numbers & Technical Data

| Ampere Rating | Littelfuse Catalog Number | Mounting Type | Maximum Clearing I <sup>2</sup> t @150 VAC (A <sup>2</sup> S x 10 <sup>3</sup> ) | Watts Loss @ Rated Current (W) |
|---------------|---------------------------|---------------|----------------------------------------------------------------------------------|--------------------------------|
| 1             | LA15QS1-2                 | 2             | 0.0002                                                                           | 0.68                           |
| 2             | LA15QS2-2                 | 2             | 0.001                                                                            | 1.3                            |
| 3             | LA15QS3-2                 | 2             | 0.003                                                                            | 1.7                            |
| 4             | LA15QS4-2                 | 2             | 0.007                                                                            | 2.1                            |
| 5             | LA15QS5-2                 | 2             | 0.012                                                                            | 2.8                            |
| 6             | LA15QS6-2                 | 2             | 0.022                                                                            | 3.1                            |
| 7             | LA15QS7-2                 | 2             | 0.011                                                                            | 2.2                            |
| 8             | LA15QS8-2                 | 2             | 0.015                                                                            | 2.5                            |
| 10            | LA15QS10-2                | 2             | 0.019                                                                            | 2.6                            |
| 12            | LA15QS12-2                | 2             | 0.030                                                                            | 3                              |
| 15            | LA15QS15-2                | 2             | 0.042                                                                            | 3                              |
| 20            | LA15QS20-2                | 2             | 0.072                                                                            | 4                              |
| 25            | LA15QS25-2                | 2             | 0.14                                                                             | 5.2                            |
| 30            | LA15QS30-2                | 2             | 0.25                                                                             | 5.6                            |
| 35            | LA15QS35-1                | 1             | 0.21                                                                             | 9                              |
| 40            | LA15QS40-1                | 1             | 0.28                                                                             | 10                             |
| 40            | LA15QS40-4TI              | 4TI           | 0.39                                                                             | 3.1                            |
| 45            | LA15QS45-1                | 1             | 0.34                                                                             | 12                             |
| 50            | LA15QS50-1                | 1             | 0.47                                                                             | 13                             |
| 50            | LA15QS50-4                | 4             | 0.64                                                                             | 4                              |
| 55            | LA15QS55-1                | 1             | Contact Factory                                                                  | Contact Factory                |
| 60            | LA15QS60-1                | 1             | 0.94                                                                             | 14                             |
| 70            | LA15QS70-4                | 4             | 2                                                                                | 5.6                            |
| 70            | LA15QS70-4TI              | 4TI           | 2                                                                                | 5.6                            |
| 80            | LA15QS80-4                | 4             | 2.5                                                                              | 8                              |
| 80            | LA15QS80-4TI              | 4TI           | 2.5                                                                              | 8                              |
| 90            | LA15QS90-4                | 4             | 3.1                                                                              | 9                              |
| 100           | LA15QS100-4               | 4             | 3.6                                                                              | 10                             |
| 100           | LA15QS100-4TI             | 4TI           | 3.6                                                                              | 10                             |
| 130           | LA15QS130-4               | 4             | 5.3                                                                              | 14                             |
| 130           | LA15QS130-4TI             | 4TI           | 5.3                                                                              | 14                             |
| 150           | LA15QS150-4               | 4             | 6.8                                                                              | 16                             |
| 150           | LA15QS150-4IL             | 4IL           | 6.8                                                                              | 16                             |
| 150           | LA15QS150-4TI             | 4TI           | 6.8                                                                              | 16                             |
| 200           | LA15QS200-4               | 4             | 9                                                                                | 22                             |
| 200           | LA15QS200-4IL             | 4IL           | 9                                                                                | 22                             |
| 250           | LA15QS250-4               | 4             | 15                                                                               | 22                             |

| Ampere Rating | Littelfuse Catalog Number | Mounting Type | Maximum Clearing I <sup>2</sup> t @150 VAC (A <sup>2</sup> S x 10 <sup>3</sup> ) | Watts Loss @ Rated Current (W) |
|---------------|---------------------------|---------------|----------------------------------------------------------------------------------|--------------------------------|
| 250           | LA15QS250-4TI             | 4TI           | 15                                                                               | 27                             |
| 300           | LA15QS300-4               | 4             | 22                                                                               | 33                             |
| 300           | LA15QS300-4IL             | 4IL           | 22                                                                               | 33                             |
| 300           | LA15QS300-4TL             | 4TI           | 22                                                                               | 33                             |
| 350           | LA15QS350-4               | 4             | 32                                                                               | 40                             |
| 350           | LA15QS350-4TI             | 4TI           | 32                                                                               | 40                             |
| 400           | LA15QS400-4               | 4             | 40                                                                               | 45                             |
| 400           | LA15QS400-4IL             | 4IL           | 40                                                                               | 45                             |
| 400           | LA15QS400-4TI             | 4TI           | 40                                                                               | 45                             |
| 450           | LA15QS450-4               | 4             | 50                                                                               | 50                             |
| 450           | LA15QS450-4IL             | 4IL           | 50                                                                               | 50                             |
| 500           | LA15QS500-4               | 4             | 90                                                                               | 30                             |
| 500           | LA15QS500-4IL             | 4IL           | 90                                                                               | 30                             |
| 600           | LA15QS600-4               | 4             | 130                                                                              | 35                             |
| 600           | LA15QS600-4IL             | 4IL           | 130                                                                              | 35                             |
| 800           | LA15QS800-4               | 4             | 290                                                                              | 57                             |
| 1000          | LA15QS1000-4              | 4             | 520                                                                              | 75                             |
| 1000          | LA15QS1000-4IL            | 4IL           | 520                                                                              | 75                             |
| 1000          | LA15QS1000-4TI            | 4TI           | 520                                                                              | 75                             |
| 1000          | LA15QS1000-128            | 128           | 540                                                                              | 88                             |
| 1000          | LA15QS1000-128IL          | 128IL         | 540                                                                              | 88                             |
| 1200          | LA15QS1200-128            | 128           | 680                                                                              | 100                            |
| 1200          | LA15QS1200-128IL          | 128IL         | 680                                                                              | 100                            |
| 1500          | LA15QS1500-128            | 128           | 1200                                                                             | 130                            |
| 1500          | LA15QS1500-128IL          | 128IL         | 1200                                                                             | 130                            |
| 2000          | LA15QS2000-128            | 128           | 1900                                                                             | 165                            |
| 2000          | LA15QS2000-128IL          | 128IL         | 1900                                                                             | 165                            |
| 2500          | LA15QS2500-128            | 128           | 3200                                                                             | 195                            |
| 2500          | LA15QS2500-128IL          | 128IL         | 3200                                                                             | 195                            |
| 3000          | LA15QS3000-128            | 128           | 4800                                                                             | 240                            |
| 3000          | LA15QS3000-128IL          | 128IL         | 4800                                                                             | 240                            |
| 3500          | LA15QS3500-128            | 128           | 6500                                                                             | 260                            |
| 4000          | LA15QS4000-128            | 128           | 8500                                                                             | 270                            |
| 4000          | LA15QS4000-128IL          | 128IL         | 8500                                                                             | 270                            |
| 5000          | LA15QS5000-128            | 128           | Contact Factory                                                                  | Contact Factory                |
| 6000          | LA15QS6000-128            | 128           | Contact Factory                                                                  | Contact Factory                |

Figure 1

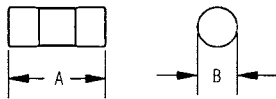


Figure 2

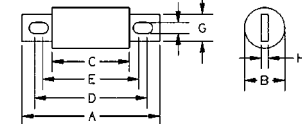


Figure 3

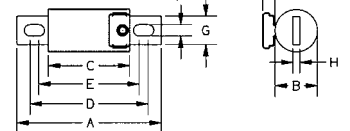


Figure 4

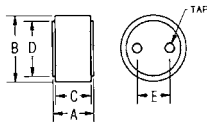


Figure 5

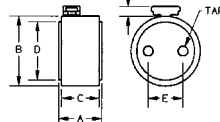


Figure 6

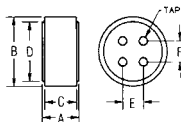


Figure 7

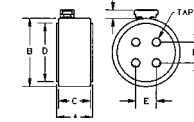
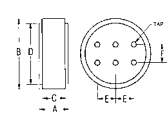


Figure 8



### Dimensions

Dimensions for reference only.

| Amperes     | Mount. Type   | Fig. No. | Dimensions in Inches (mm in parentheses) |             |             |             |             |             |             |            | Tap             |
|-------------|---------------|----------|------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-----------------|
|             |               |          | A                                        | B           | C           | D           | E           | F           | G           | H          |                 |
| 1 – 30      | 2             | 1        | 1.50 (38.1)                              | 0.41 (10.4) | –           | –           | –           | –           | –           | –          | –               |
| 35 – 60     | 1             | 1        | 2.00 (50.8)                              | 0.81 (20.6) | –           | –           | –           | –           | –           | –          | –               |
| 70 – 450    | 4, 4TI*, 4IL* | 2, 3*    | 2.66 (67.6)                              | 1.13 (28.7) | 1.16 (29.5) | 2.19 (55.6) | 1.91 (48.5) | 0.31 (7.9)  | 0.88 (22.4) | 0.19 (4.8) | –               |
| 500 – 1000  | 4, 4TI*, 4IL* | 2, 3*    | 3.50 (88.9)                              | 1.50 (38.1) | 1.25 (31.8) | 2.56 (65.0) | 1.94 (49.3) | 0.41 (10.4) | 1.00 (25.4) | 0.25 (6.4) | –               |
| 750 – 2000  | 128, 128IL*   | 4, 5*    | 1.88 (47.9)                              | 2.00 (50.8) | 1.63 (41.4) | 1.75 (44.5) | 1.00 (25.4) | –           | –           | –          | 3/8-24-1/2 deep |
| 2500 – 3000 | 128, 128IL*   | 4, 5*    | 1.88 (47.9)                              | 3.00 (76.2) | 1.63 (41.4) | 2.50 (63.5) | 1.50 (38.1) | –           | –           | –          | 1/2-20-1/2 deep |
| 3500 – 4000 | 128, 128IL*   | 6, 7*    | 1.88 (47.9)                              | 3.50 (88.9) | 1.63 (41.4) | 3.00 (76.2) | 1.06 (27.0) | 1.06 (27.0) | –           | –          | 1/2-20-1/2 deep |
| 5000 – 6000 | 128           | 8        | 2.38 (60.5)                              | 5.75 (146)  | 1.88 (47.7) | 5.00 (127)  | 1.50 (38.1) | 1.50 (38.1) | –           | –          | 1/2-20-1/2 deep |

\* Optional Trigger Actuator (IL)

## LA30QS Semiconductor Fuses

300 VAC • Very Fast Acting • 35 – 4500 Amperes



Littelfuse LA30QS series Semiconductor protection fuses are intended for the protection of Power Semiconductors such as diodes, phase control SCR's and other power semiconductor devices. The LA30QS is recommended for new applications providing solutions for your critical protection needs for 300V and less semiconductors.

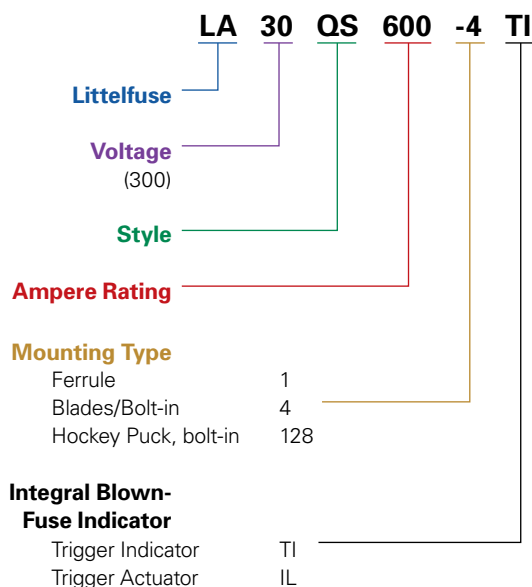
### Features

- Low  $I^2t$  minimizes damage to protected components on short-circuit.
- Controlled arc voltage reduces stress to circuit components during fuse clearing.
- Choice of mounting types provides options for unique termination requirements.
- Indicator options allow identification of blown fuses.
- Superior DC capabilities.

### Applications

Protection of 300 volt heavy duty rectifiers and similar heavy duty power supplies.

### Ordering Information



*Note: Mounting types and integral blown fuse indicators are optional for specified ratings.*

### Specifications

|                             |                                             |
|-----------------------------|---------------------------------------------|
| <b>Voltage Rating:</b>      | AC: 300 volts<br>DC: 300 volts              |
| <b>Interrupting Rating:</b> | 200,000 Amperes                             |
| <b>Ampere Range:</b>        | 35 – 4500 Amperes                           |
| <b>Approvals:</b>           | UL Recognized under the components program. |

Contact Littelfuse for characteristic curves.

## LA30QS Semiconductor Fuses

300 VAC • Very Fast Acting • 35 – 4500 Amperes

### Catalog Numbers & Technical Data

| Ampere Rating | Littelfuse Catalog Number | Mounting Type | Maximum Clearing I <sup>2</sup> t @300 VAC (A <sup>2</sup> S x 10 <sup>3</sup> ) | Watts Loss @ Rated Current (W) |
|---------------|---------------------------|---------------|----------------------------------------------------------------------------------|--------------------------------|
| 35            | LA30QS35-4                | 4             | 0.9                                                                              | 6.4                            |
| 40            | LA30QS40-4                | 4             | 1.2                                                                              | 7                              |
| 50            | LA30QS50-4                | 4             | 2                                                                                | 9.9                            |
| 60            | LA30QS60-4                | 4             | 2.7                                                                              | 11.6                           |
| 70            | LA30QS70-4                | 4             | 1.6                                                                              | 11                             |
| 80            | LA30QS80-4                | 4             | 2.6                                                                              | 11                             |
| 90            | LA30QS90-4                | 4             | 3.2                                                                              | 13                             |
| 100           | LA30QS100-4               | 4             | 4.1                                                                              | 13                             |
| 100           | LA30QS100-4TI             | 4TI           | 4.1                                                                              | 13                             |
| 125           | LA30QS125-4               | 4             | 6.3                                                                              | 16                             |
| 130           | LA30QS130-4               | 4             | 6.3                                                                              | 16                             |
| 150           | LA30QS150-4               | 4             | 9.3                                                                              | 19                             |
| 150           | LA30QS150-4TI             | 4TI           | 9.3                                                                              | 19                             |
| 175           | LA30QS175-4               | 4             | 10                                                                               | 27                             |
| 200           | LA30QS200-4               | 4             | 15                                                                               | 30                             |
| 200           | LA30QS200-4TI             | 4TI           | 15                                                                               | 30                             |
| 225           | LA30QS225-4               | 4             | 22                                                                               | 33                             |
| 250           | LA30QS250-4               | 4             | 25                                                                               | 41                             |
| 250           | LA30QS250-4TI             | 4TI           | 25                                                                               | 41                             |
| 300           | LA30QS300-4               | 4             | 37                                                                               | 47                             |
| 300           | LA30QS300-4TI             | 4TI           | 37                                                                               | 47                             |
| 350           | LA30QS350-4               | 4             | 62                                                                               | 49                             |
| 400           | LA30QS400-4               | 4             | 83                                                                               | 56                             |
| 400           | LA30QS400-4IL             | 4IL           | 83                                                                               | 56                             |
| 400           | LA30QS400-4TI             | 4TI           | 83                                                                               | 56                             |
| 450           | LA30QS450-4               | 4             | 130                                                                              | 53                             |

| Ampere Rating | Littelfuse Catalog Number | Mounting Type | Maximum Clearing I <sup>2</sup> t @300 VAC (A <sup>2</sup> S x 10 <sup>3</sup> ) | Watts Loss @ Rated Current (W) |
|---------------|---------------------------|---------------|----------------------------------------------------------------------------------|--------------------------------|
| 500           | LA30QS500-4               | 4             | 160                                                                              | 59                             |
| 550           | LA30QS550-4               | 4             | 190                                                                              | 65                             |
| 600           | LA30QS600-4               | 4             | 230                                                                              | 69                             |
| 600           | LA30QS600-4TI             | 4TI           | 230                                                                              | 69                             |
| 600           | LA30QS600-4IL             | 4IL           | 230                                                                              | 69                             |
| 700           | LA30QS700-4               | 4             | 260                                                                              | 90                             |
| 700           | LA30QS700-128             | 128           | 260                                                                              | 73                             |
| 800           | LA30QS800-4               | 4             | 330                                                                              | 108                            |
| 800           | LA30QS800-4IL             | 4IL           | 330                                                                              | 108                            |
| 800           | LA30QS800-128             | 128           | 330                                                                              | 84                             |
| 1000          | LA30QS1000-128            | 128           | 460                                                                              | 105                            |
| 1000          | LA30QS1000-128IL          | 128IL         | 460                                                                              | 105                            |
| 1200          | LA30QS1200-128            | 128           | 880                                                                              | 110                            |
| 1500          | LA30QS1500-128            | 128           | 1400                                                                             | 140                            |
| 1500          | LA30QS1500-128IL          | 128IL         | 1400                                                                             | 140                            |
| 1600          | LA30QS1600-128            | 128           | 1690                                                                             | 150                            |
| 2000          | LA30QS2000-128            | 128           | 2600                                                                             | 190                            |
| 2000          | LA30QS2000-128IL          | 128IL         | 2600                                                                             | 190                            |
| 2500          | LA30QS2500-128            | 128           | 4000                                                                             | 230                            |
| 2500          | LA30QS2500-128IL          | 128IL         | 4000                                                                             | 230                            |
| 3000          | LA30QS3000-128            | 128           | 4700                                                                             | 340                            |
| 3500          | LA30QS3500-128            | 128           | 6500                                                                             | 380                            |
| 3500          | LA30QS3500-128IL          | 128IL         | 6500                                                                             | 380                            |
| 4000          | LA30QS4000-128            | 128           | 8600                                                                             | 450                            |
| 4500          | LA30QS4500-128            | 128           | 11000                                                                            | 500                            |

Figure 1

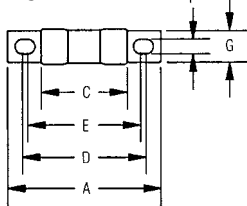


Figure 2

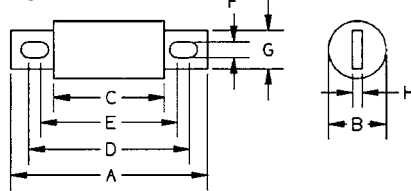


Figure 3

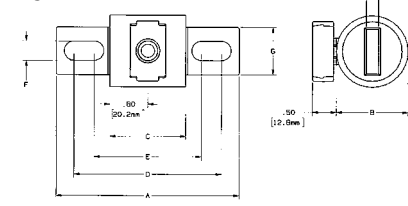


Figure 4

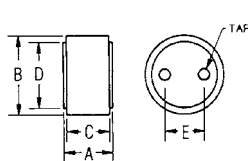


Figure 5

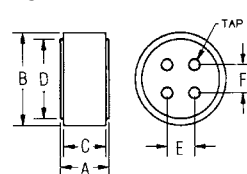
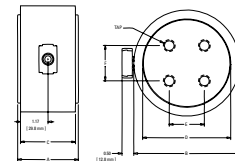


Figure 6



### Dimensions

Dimensions for reference only.

| Amperes     | Mount. Type | Fig. No. | Dimensions in Inches (mm in parentheses) |             |             |             |             |             |             |            | Tap             |
|-------------|-------------|----------|------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|-----------------|
|             |             |          | A                                        | B           | C           | D           | E           | F           | G           | H          |                 |
| 35 – 60     | 4           | 1        | 3.19 (81.0)                              | 0.81 (20.6) | 1.63 (41.4) | 2.50 (63.5) | 2.25 (57.5) | 0.34 (8.6)  | 0.72 (18.3) | 0.13 (3.3) | —               |
| 70 – 200    | 4           | 2        | 3.13 (79.5)                              | 1.22 (31.0) | 1.63 (41.4) | 2.44 (62.0) | 2.31 (58.7) | 0.31 (7.9)  | 1.00 (25.4) | 0.19 (4.8) | —               |
| 225 – 700   | 4, 4IL*     | 2, 3*    | 3.84 (97.5)                              | 1.50 (38.1) | 1.59 (40.1) | 2.91 (73.9) | 2.28 (57.9) | 0.41 (10.4) | 1.00 (25.4) | 0.25 (6.4) | —               |
| 700 – 1200  | 128         | 4        | 2.59 (65.8)                              | 3.00 (76.2) | 2.34 (59.4) | 2.50 (63.5) | 1.50 (38.1) | —           | —           | —          | 3/8-24-1/2 deep |
| 1500 – 2500 | 128, 128IL* | 5, 6*    | 2.59 (65.8)                              | 3.50 (88.9) | 2.34 (59.4) | 3.00 (76.2) | 1.50 (38.1) | 1.50 (38.1) | —           | —          | 3/8-24-1/2 deep |
| 3000 – 4500 | 128, 128IL* | 5, 6*    | 2.59 (65.8)                              | 4.50 (114)  | 2.34 (59.4) | 3.75 (95.3) | 1.50 (38.1) | 1.50 (38.1) | —           | —          | 1/2-20-1/2 deep |

\* Optional Actuator (IL)

## LA50QS Semiconductor Fuses

500 VAC • Very Fast Acting • 35 – 1200 Amperes



In response to new equipment requirements, Littelfuse LA50QS series fuses were developed to improve the overall performance of semiconductor fuses. The LA50QS provides the best protection features including lower  $I^2t$ , longer life when subjected to cyclic loading and lower watts loss. LA50QS is today's choice for the protection of dynamic solid state equipment.

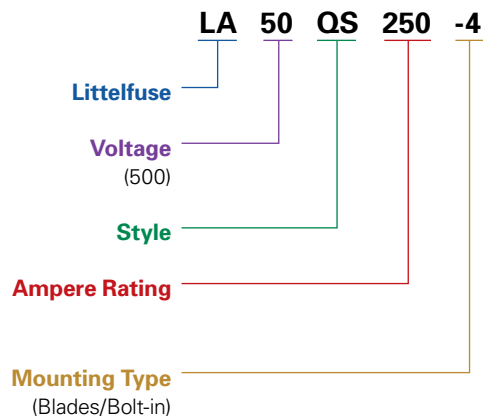
### Features

- Lowest  $I^2t$  for greatest protection of semiconductor circuits.
- Low watts loss for cooler operation.
- Superior cycling ability gives an equipment design advantage.
- State-of-the-art protection for 500 volt equipment.
- Ultra compact sizes allow down-sizing of existing equipment.

### Applications

Protection of 500 volts or less solid state equipment such as motor drives, UPS, inverters, etc.

### Ordering Information



### Specifications

|                             |                                                              |
|-----------------------------|--------------------------------------------------------------|
| <b>Voltage Rating:</b>      | AC: 500 volts<br>DC: 500 volts                               |
| <b>Interrupting Rating:</b> | AC: 200,000 Amperes<br>DC: 100,000 Amperes                   |
| <b>Ampere Range:</b>        | 35 – 1200 Amperes                                            |
| <b>Approvals:</b>           | UL Recognized under the components program<br>CSA Certified. |

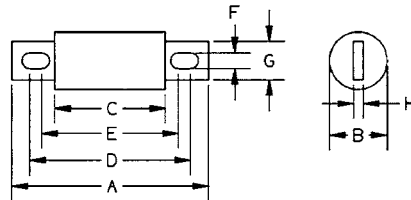
## LA50QS Semiconductor Fuses

500 VAC • Very Fast Acting • 35 – 1200 Amperes

### Catalog Numbers & Technical Data

| Ampere Rating | Littelfuse Catalog Number | Mounting Type | Maximum Clearing I <sup>2</sup> t @500 VAC (A <sup>2</sup> S x 10 <sup>3</sup> ) | Watts Loss @ Rated Current (W) |
|---------------|---------------------------|---------------|----------------------------------------------------------------------------------|--------------------------------|
| 35            | LA50QS35-4                | 4             | 0.56                                                                             | 6                              |
| 40            | LA50QS40-4                | 4             | 0.69                                                                             | 7                              |
| 50            | LA50QS50-4                | 4             | 1.1                                                                              | 8                              |
| 60            | LA50QS60-4                | 4             | 1.8                                                                              | 10                             |
| 70            | LA50QS70-4                | 4             | 1.9                                                                              | 12                             |
| 80            | LA50QS80-4                | 4             | 2.6                                                                              | 14                             |
| 90            | LA50QS90-4                | 4             | 3.6                                                                              | 15                             |
| 100           | LA50QS100-4               | 4             | 4.4                                                                              | 17                             |
| 125           | LA50QS125-4               | 4             | 5.6                                                                              | 21                             |
| 150           | LA50QS150-4               | 4             | 9                                                                                | 25                             |
| 175           | LA50QS175-4               | 4             | 15                                                                               | 29                             |
| 200           | LA50QS200-4               | 4             | 20                                                                               | 33                             |
| 225           | LA50QS225-4               | 4             | 25                                                                               | 37                             |

| Ampere Rating | Littelfuse Catalog Number | Mounting Type | Maximum Clearing I <sup>2</sup> t @500 VAC (A <sup>2</sup> S x 10 <sup>3</sup> ) | Watts Loss @ Rated Current (W) |
|---------------|---------------------------|---------------|----------------------------------------------------------------------------------|--------------------------------|
| 250           | LA50QS250-4               | 4             | 29                                                                               | 41                             |
| 300           | LA50QS300-4               | 4             | 55                                                                               | 49                             |
| 350           | LA50QS350-4               | 4             | 88                                                                               | 57                             |
| 400           | LA50QS400-4               | 4             | 98                                                                               | 65                             |
| 450           | LA50QS450-4               | 4             | 130                                                                              | 69                             |
| 500           | LA50QS500-4               | 4             | 160                                                                              | 77                             |
| 600           | LA50QS600-4               | 4             | 220                                                                              | 92                             |
| 700           | LA50QS700-4               | 4             | 270                                                                              | 110                            |
| 800           | LA50QS800-4               | 4             | 360                                                                              | 130                            |
| 900           | LA50QS900-4               | 4             | 500                                                                              | 140                            |
| 1000          | LA50QS1000-4              | 4             | 560                                                                              | 160                            |
| 1200          | LA50QS1200-4              | 4             | 930                                                                              | 175                            |



### Dimensions

Dimensions for reference only.

| Amperes    | Mount. Type | Dimensions in Inches (mm in parentheses) |                |                |                 |                 |                |                |                |
|------------|-------------|------------------------------------------|----------------|----------------|-----------------|-----------------|----------------|----------------|----------------|
|            |             | A                                        | B              | C              | D               | E               | F              | G              | H              |
| 35 – 100   | 4           | 3.63<br>(92.2)                           | 1.00<br>(25.4) | 2.13<br>(54.1) | 2.94<br>(74.7)  | 2.75<br>(69.9)  | 0.31<br>(7.9)  | 0.75<br>(19.1) | 0.13<br>(3.3)  |
| 125 – 200  | 4           | 3.63<br>(92.2)                           | 1.22<br>(31.0) | 2.13<br>(54.1) | 2.94<br>(74.7)  | 2.81<br>(71.4)  | 0.31<br>(7.9)  | 1.00<br>(25.4) | 0.19<br>(4.8)  |
| 225 – 400  | 4           | 4.34<br>(110)                            | 1.50<br>(38.1) | 2.09<br>(53.1) | 3.41<br>(86.6)  | 2.78<br>(70.6)  | 0.41<br>(10.4) | 1.00<br>(25.4) | 0.25<br>(6.4)  |
| 450 – 600  | 4           | 4.47<br>(114)                            | 2.00<br>(50.8) | 2.22<br>(56.4) | 3.53<br>(89.7)  | 2.91<br>(73.9)  | 0.41<br>(10.4) | 1.50<br>(38.1) | 0.25<br>(6.4)  |
| 700 – 800  | 4           | 6.47<br>(164.3)                          | 2.50<br>(63.5) | 2.22<br>(56.4) | 5.00<br>(127.0) | 3.44<br>(87.3)  | 0.53<br>(13.5) | 1.50<br>(38.1) | 0.25<br>(6.4)  |
| 900 – 1200 | 4           | 6.97<br>(177.0)                          | 3.00<br>(76.2) | 3.22<br>(81.8) | 5.47<br>(138.9) | 4.47<br>(113.5) | 0.63<br>(15.9) | 2.38<br>(60.3) | 0.44<br>(11.1) |

Contact Littelfuse for characteristic curves.

## LA60Q Semiconductor Fuses

600 VAC • Very Fast Acting • 5 – 40 Amperes

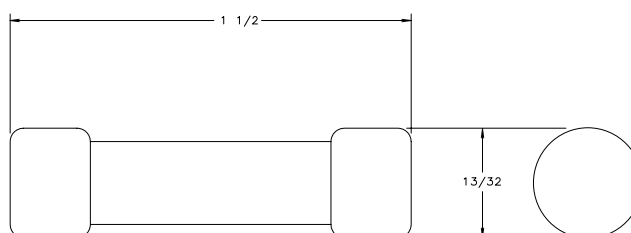


Littelfuse LA60Q semiconductor protection fuses feature a 600 volt AC/DC rating in a compact size (1½" x 13/32"). LA60Q also has the lowest I<sup>2</sup>t of all similar fuses and excellent cycling ability. Applications include inverters and small equipment requiring extremely fast response to faults, without the need to carry sustained heavy overloads.

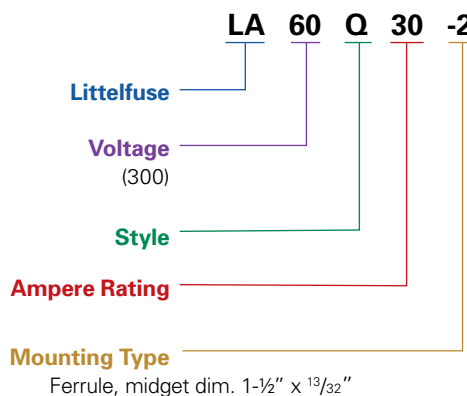
### Features

- Lowest I<sup>2</sup>t of any fuse this size for greater protection.
- Excellent cycling ability gives advantage in equipment design.

### Dimensions (in inches)



### Ordering Information



### Catalog Numbers & Technical Data

| Ampere Rating | Littelfuse Catalog Number | Mounting Type | Maximum Clearing I <sup>2</sup> t @600 VAC (A <sup>2</sup> S) | Watts Loss @ Rated Current (W) |
|---------------|---------------------------|---------------|---------------------------------------------------------------|--------------------------------|
| 5             | LA60Q5-2                  | 2             | 60                                                            | 0.7                            |
| 8             | LA60Q8-2                  | 2             | 70                                                            | 1.1                            |
| 10            | LA60Q10-2                 | 2             | 110                                                           | 1.6                            |
| 12            | LA60Q12-2                 | 2             | 150                                                           | 2                              |
| 15            | LA60Q15-2                 | 2             | 180                                                           | 3                              |
| 20            | LA60Q20-2                 | 2             | 330                                                           | 4.4                            |
| 25            | LA60Q25-2                 | 2             | 440                                                           | 5.5                            |
| 30            | LA60Q30-2                 | 2             | 860                                                           | 5.6                            |
| 35            | LA60Q35-2                 | 2             | 1300                                                          | 6.4                            |
| 40            | LA60Q40-2                 | 2             | 1800                                                          | 7                              |

### Specifications

|                             |                                             |
|-----------------------------|---------------------------------------------|
| <b>Voltage Rating:</b>      | AC: 600 volts<br>DC: 600 volts              |
| <b>Interrupting Rating:</b> | AC: 200,000 Amperes<br>DC: 100,000 Amperes  |
| <b>Ampere Range:</b>        | 5 – 40 Amperes                              |
| <b>Approvals:</b>           | UL Recognized under the components program. |

### Recommended Fuse Blocks

LPSM or L60030M

Contact Littelfuse for characteristic curves.

## LA60X Semiconductor Fuses

600 VAC • Very Fast Acting • 700 – 2000 Amperes



Littelfuse LA60X semiconductor protection fuses are popular for the protection of higher voltage heavy rectifiers such as traction rectifiers. They can carry long sustained overloads common with heavy-duty apparatus. The compact “hockey puck” design provides high power protection in a small space.

### Features

- Lowest  $I^2t$  minimizes damage to protected components on short-circuit.
- Controlled arc voltage reduces stress to circuit components during fuse clearing.

### Applications

Protection of heavy traction and electrochemical as well as rectifiers and other heavy-duty equipment.

### Ordering Information

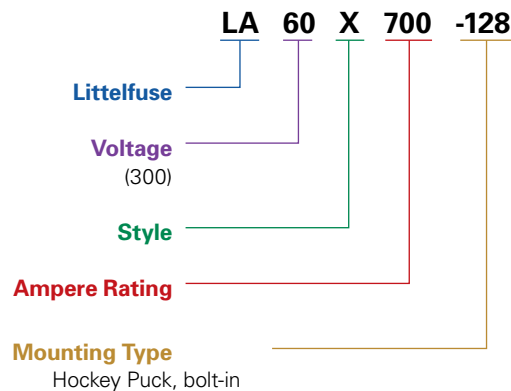


Figure 1

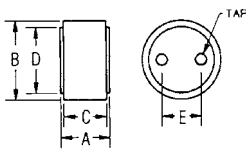
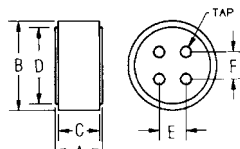


Figure 2



### Dimensions

Dimensions for reference only.

| Amperes     | Mount. Type | Fig. No. | Dimensions in Inches (mm in parentheses) |                |                |                |                |                | Tap             |
|-------------|-------------|----------|------------------------------------------|----------------|----------------|----------------|----------------|----------------|-----------------|
|             |             |          | A                                        | B              | C              | D              | E              | F              |                 |
| 700 – 800   | 128         | 1        | 4.00<br>(102)                            | 3.00<br>(76.2) | 3.75<br>(95.3) | 2.50<br>(63.5) | 1.50<br>(38.1) | -              | 3/8-24-1/2 deep |
| 1000 – 1200 | 128         | 2        | 4.00<br>(102)                            | 3.50<br>(88.9) | 3.75<br>(95.3) | 3.00<br>(76.2) | 1.50<br>(38.1) | 1.50<br>(38.1) | 3/8-24-1/2 deep |
| 1500 – 2000 | 128         | 2        | 4.00<br>(102)                            | 4.50<br>(114)  | 3.75<br>(95.3) | 3.75<br>(95.3) | 1.50<br>(38.1) | 1.50<br>(38.1) | 1/2-20-1/2 deep |

### Specifications

|                             |                                             |
|-----------------------------|---------------------------------------------|
| <b>Voltage Rating:</b>      | AC: 600 volts                               |
| <b>Interrupting Rating:</b> | AC: 100,000 Amperes                         |
| <b>Ampere Range:</b>        | 700 – 2000 Amperes                          |
| <b>Approvals:</b>           | UL Recognized under the components program. |

### Ampere Ratings

|      |      |      |
|------|------|------|
| 700  | 1200 | 1800 |
| 800  | 1500 | 2000 |
| 1000 | 1600 |      |

Contact Littelfuse for technical information.

## LA70QS Semiconductor Fuses

700 VAC • Very Fast Acting • 35 – 800 Amperes



Littelfuse LA70QS semiconductor fuses were developed to provide improved performance required by today's new equipment. The LA70QS features lower  $I^2t$ , improved cycling, and lower watts loss. It is the best choice for the protection of dynamic solid-state equipment.

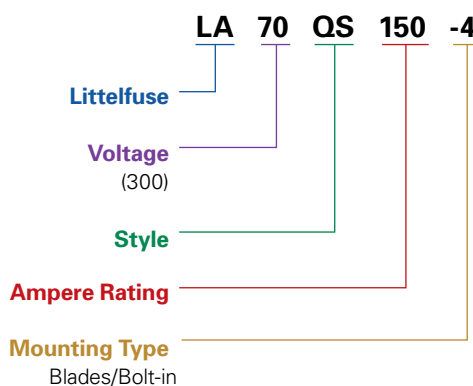
### Features

- Very low  $I^2t$  improved protection of equipment.
- Superior cycling ability for long, reliable life on high cycling loading.
- Lower watts loss for cooler operation.
- 700 Volt AC/DC rating provides greater design versatility.
- Compact sizes allow downsizing of equipment.

### Applications

Protection of 700 volt or less solid state equipment such as motor drives, UPS, inverters, etc.

### Ordering Information



### Specifications

|                             |                                                               |
|-----------------------------|---------------------------------------------------------------|
| <b>Voltage Rating:</b>      | AC: 700 Volts<br>DC: 700 Volts                                |
| <b>Interrupting Rating:</b> | AC: 200,000 Amperes<br>DC: 100,000 Amperes                    |
| <b>Ampere Range:</b>        | 35 – 800 Amperes                                              |
| <b>Approvals:</b>           | UL Recognized under the components program.<br>CSA Certified. |

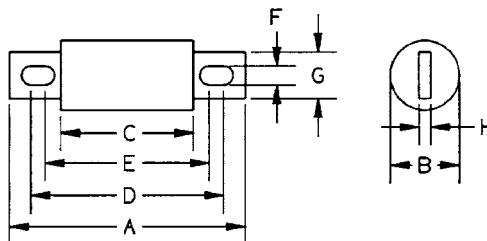
## LA70QS Semiconductor Fuses

700 VAC • Very Fast Acting • 35 – 800 Amperes

### Catalog Numbers & Technical Data

| Ampere Rating | Littelfuse Catalog Number | Mounting Type | Maximum Clearing I <sup>2</sup> t @700 VAC (A <sup>2</sup> S x 10 <sup>3</sup> ) | Watts Loss @ Rated Current (W) |
|---------------|---------------------------|---------------|----------------------------------------------------------------------------------|--------------------------------|
| 35            | LA70QS35-4                | 4             | 0.47                                                                             | 6.2                            |
| 40            | LA70QS40-4                | 4             | 0.58                                                                             | 7.5                            |
| 50            | LA70QS50-4                | 4             | 0.88                                                                             | 9.8                            |
| 60            | LA70QS60-4                | 4             | 1.2                                                                              | 12                             |
| 70            | LA70QS70-4                | 4             | 1.8                                                                              | 15                             |
| 80            | LA70QS80-4                | 4             | 2.3                                                                              | 16                             |
| 90            | LA70QS90-4                | 4             | 3                                                                                | 20                             |
| 100           | LA70QS100-4               | 4             | 3.6                                                                              | 24                             |
| 125           | LA70QS125-4               | 4             | 6.9                                                                              | 22                             |
| 125           | LA70QS125-4K              | 4K            | 6.9                                                                              | 22                             |
| 150           | LA70QS150-4               | 4             | 11                                                                               | 28                             |
| 150           | LA70QS150-4K              | 4K            | 11                                                                               | 29                             |
| 175           | LA70QS175-4               | 4             | 14                                                                               | 35                             |
| 175           | LA70QS175-4K              | 4K            | 14                                                                               | 35                             |

| Ampere Rating | Littelfuse Catalog Number | Mounting Type | Maximum Clearing I <sup>2</sup> t @700 VAC (A <sup>2</sup> S x 10 <sup>3</sup> ) | Watts Loss @ Rated Current (W) |
|---------------|---------------------------|---------------|----------------------------------------------------------------------------------|--------------------------------|
| 200           | LA70QS200-4               | 4             | 19                                                                               | 41                             |
| 200           | LA70QS200-4K              | 4             | 19                                                                               | 41                             |
| 250           | LA70QS250-4               | 4             | 42                                                                               | 42                             |
| 300           | LA70QS300-4               | 4             | 55                                                                               | 53                             |
| 350           | LA70QS350-4               | 4             | 72                                                                               | 64                             |
| 400           | LA70QS400-4               | 4             | 99                                                                               | 75                             |
| 450           | LA70QS450-4               | 4             | 125                                                                              | 75                             |
| 450           | LA70QS450-4K              | 4K            | 125                                                                              | 75                             |
| 500           | LA70QS500-4               | 4             | 150                                                                              | 92                             |
| 500           | LA70QS500-4K              | 4K            | 160                                                                              | 92                             |
| 600           | LA70QS600-4               | 4             | 222                                                                              | 116                            |
| 600           | LA70QS600-4K              | 4K            | 222                                                                              | 116                            |
| 700           | LA70QS700-4               | 4             | 332                                                                              | 125                            |
| 800           | LA70QS800-4               | 4             | 433                                                                              | 143                            |



### Dimensions

Dimensions for reference only.

| Amperes   | Mount. Type | Dimensions in Inches (mm in parentheses) |                |                |                |                |                |                |               |
|-----------|-------------|------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|
|           |             | A                                        | B              | C              | D              | E              | F              | G              | H             |
| 35 – 100  | 4           | 4.38<br>(111)                            | 1.00<br>(25.4) | 2.88<br>(73)   | 3.69<br>(93.6) | 3.50<br>(88.9) | 0.31<br>(7.9)  | 0.75<br>(19.0) | 0.13<br>(3.2) |
| 125 – 200 | 4           | 4.38<br>(111)                            | 1.22<br>(31.0) | 2.88<br>(73)   | 3.69<br>(93.6) | 3.56<br>(90.5) | 0.31<br>(7.9)  | 1.00<br>(25.4) | 0.19<br>(4.8) |
| 125 – 200 | 4K          | 5.09<br>(129)                            | 1.22<br>(31.0) | 2.88<br>(73)   | 4.19<br>(106)  | 3.50<br>(88)   | 0.41<br>(10.3) | 1.00<br>(25.4) | 0.19<br>(4.8) |
| 225 – 400 | 4           | 5.09<br>(129)                            | 1.50<br>(38.1) | 2.84<br>(72.2) | 4.16<br>(106)  | 3.53<br>(89.7) | 0.40<br>(10.3) | 1.50<br>(38.1) | 0.25<br>(6.4) |
| 450 – 600 | 4           | 5.09<br>(129)                            | 2.00<br>(50.8) | 2.84<br>(72.2) | 4.16<br>(106)  | 3.53<br>(89.7) | 0.41<br>(10.3) | 1.50<br>(38.1) | 0.25<br>(6.4) |
| 450 – 600 | 4K          | 7.09<br>(180)                            | 2.00<br>(50.8) | 2.84<br>(72.2) | 6.16<br>(156)  | 3.53<br>(89.7) | 0.53<br>(13.5) | 1.50<br>(38.1) | 0.25<br>(6.4) |
| 700 – 800 | 4           | 7.09<br>(180)                            | 2.50<br>(63.5) | 2.84<br>(72.2) | 5.28<br>(134)  | 4.91<br>(125)  | 0.53<br>(13.5) | 2.00<br>(50.8) | 0.38<br>(9.5) |

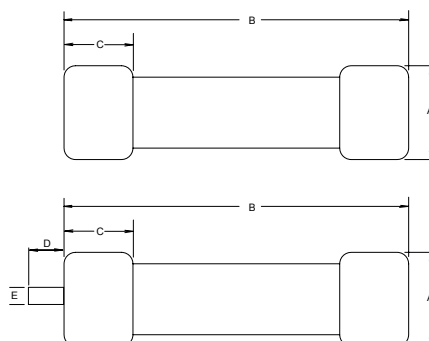
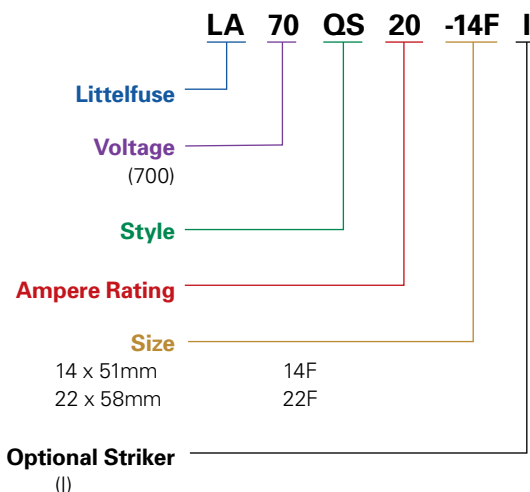
Contact Littelfuse for characteristic curves.

## LA70QS French Cylindrical Fuses

690 Volts • Very Fast Acting • 10 – 100 Amperes



### Ordering Information



Littelfuse French Cylindrical style semiconductor fuses are an extension to the LA70QS series. They offer a solid-fill design with high interrupting ratings and an optional striker for visual or remote blown fuse indication. The international 14x51mm and 22x58mm sizes are accepted worldwide.

### Catalog Numbers & Technical Data

| Ampere Rating | Littelfuse Catalog Number (No Striker) | Littelfuse Catalog Number (With Striker) | Body Size | Maximum Clearing I <sup>2</sup> t @700 VAC (A <sup>2</sup> S x 10 <sup>3</sup> ) | Watts Loss @ Rated Current (W) |
|---------------|----------------------------------------|------------------------------------------|-----------|----------------------------------------------------------------------------------|--------------------------------|
| 10            | LA70QS10-14F                           | LA70QS10-14FI                            | 14x51     | 0.04                                                                             | 3.5                            |
| 12            | LA70QS12-14F                           | LA70QS12-14FI                            | 14x51     | 0.06                                                                             | 4.4                            |
| 16            | LA70QS16-14F                           | LA70QS16-14FI                            | 14x51     | 0.10                                                                             | 4.8                            |
| 20            | LA70QS20-14F                           | LA70QS20-14FI                            | 14x51     | 0.16                                                                             | 5.2                            |
| 25            | LA70QS25-14F                           | LA70QS25-14FI                            | 14x51     | 0.27                                                                             | 5.8                            |
| 32            | LA70QS32-14F                           | LA70QS32-14FI                            | 14x51     | 1.50                                                                             | 7.0                            |
| 40            | LA70QS40-14F                           | LA70QS40-14FI                            | 14x51     | 0.70                                                                             | 10.7                           |
| 50            | LA70QS50-14F                           | LA70QS50-14FI                            | 14x51     | 1.50                                                                             | 11.6                           |
| 20            | LA70QS20-22F                           | LA70QS20-22FI                            | 22x58     | 0.076                                                                            | 8.0                            |
| 25            | LA70QS25-22F                           | LA70QS25-22FI                            | 22x58     | 0.125                                                                            | 10.0                           |
| 32            | LA70QS32-22F                           | LA70QS32-22FI                            | 22x58     | 0.27                                                                             | 11.0                           |
| 40            | LA70QS40-22F                           | LA70QS40-22FI                            | 22x58     | 0.48                                                                             | 13.0                           |
| 50            | LA70QS50-22F                           | LA70QS50-22FI                            | 22x58     | 0.80                                                                             | 14.9                           |
| 63            | LA70QS63-22F                           | LA70QS63-22FI                            | 22x58     | 1.85                                                                             | 16.0                           |
| 80            | LA70QS80-22F                           | LA70QS80-22FI                            | 22x58     | 3.80                                                                             | 17.8                           |
| 100           | LA70QS100-22F                          | LA70QS100-22FI                           | 22x58     | 8.00                                                                             | 19.0                           |

| Fuse Size            | Dimensions in mm |    |    |     |     |
|----------------------|------------------|----|----|-----|-----|
|                      | A                | B  | C  | D   | E   |
| 14x51 (no striker)   | 14               | 51 | 14 | —   | —   |
| 22x58 (no striker)   | 22               | 58 | 16 | —   | —   |
| 14x51 (with striker) | 14               | 51 | 14 | 7.5 | 3.8 |
| 22x58 (with striker) | 22               | 58 | 16 | 7.5 | 3.8 |

Dimensions for reference only.

### Specifications

|                             |                                                               |
|-----------------------------|---------------------------------------------------------------|
| <b>Voltage Rating:</b>      | AC: 690 Volts<br>DC: 700 Volts                                |
| <b>Interrupting Rating:</b> | AC: 200,000 Amperes<br>DC: 100,000 Amperes                    |
| <b>Ampere Range:</b>        | 10 – 100 Amperes                                              |
| <b>Approvals:</b>           | UL Recognized under the components program.<br>CSA Certified. |

### Recommended Fuse Blocks

CYH series for non-striker fuses LA70QS(amp)22F  
LPSG series for the striker style LA70QS(amp)22FI

## LA100P Semiconductor Fuses

1000 VAC • Very Fast Acting • 15 – 1000 Amperes



Littelfuse LA100P semiconductor protection fuses are rated 1000V, extending the range of protection for UPS systems, AC and DC drives, reduced voltage motor starters and similar applications where lower  $I^2t$  and superior reliability are needed. With ratings from 15-1000 amperes, a wide range of high voltage applications can be served.

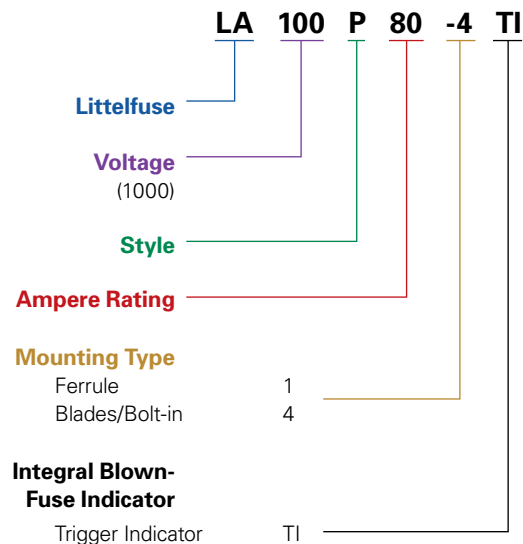
### Features

- Low  $I^2t$  minimizes damage to protected components on short-circuit.
- Controlled arc voltage reduces stress to circuit components during fuse clearing.

### Applications

Protection of UPS systems, AC/DC drives, reduced voltage motor starters and other 1000V or less semiconductor devices.

### Ordering Information



*Note: Mounting types and integral blown fuse indicators are optional for specified ratings.*

### Specifications

|                             |                                             |
|-----------------------------|---------------------------------------------|
| <b>Voltage Rating:</b>      | AC: 1000 Volts<br>DC: 750 Volts             |
| <b>Interrupting Rating:</b> | 100,000 Amperes                             |
| <b>Ampere Range:</b>        | 15 – 1000 Amperes                           |
| <b>Approvals:</b>           | UL Recognized under the components program. |

## LA100P Semiconductor Fuses

1000 VAC • Very Fast Acting • 15 – 1000 Amperes

### Catalog Numbers & Technical Data

| Ampere Rating | Littelfuse Catalog Number | Mounting Type | Maximum Clearing I <sup>2</sup> t @1000 VAC (A <sup>2</sup> S x 10 <sup>3</sup> ) | Watts Loss @ Rated Current (W) |
|---------------|---------------------------|---------------|-----------------------------------------------------------------------------------|--------------------------------|
| 15            | LA100P15-1                | 1             | 0.6                                                                               | 3.4                            |
| 20            | LA100P20-1                | 1             | 0.8                                                                               | 5.9                            |
| 25            | LA100P25-1                | 1             | 1.3                                                                               | 9                              |
| 30            | LA100P30-1                | 1             | 1.5                                                                               | 12.8                           |
| 35            | LA100P35-4                | 4             | 2.2                                                                               | 7.3                            |
| 40            | LA100P40-4                | 4             | 2.9                                                                               | 8.3                            |
| 50            | LA100P50-4                | 4             | 4.5                                                                               | 11                             |
| 50            | LA100P50-4TI              | 4TI           | 4.5                                                                               | 11                             |
| 60            | LA100P60-4                | 4             | 6.5                                                                               | 13                             |
| 60            | LA100P60-4TI              | 4TI           | 6.5                                                                               | 13                             |
| 70            | LA100P70-4TI              | 4TI           | 8.8                                                                               | 13                             |
| 80            | LA100P80-4                | 4             | 12                                                                                | 14                             |
| 80            | LA100P80-4TI              | 4TI           | 12                                                                                | 14                             |
| 100           | LA100P100-4               | 4             | 18                                                                                | 18                             |
| 100           | LA100P100-4TI             | 4TI           | 18                                                                                | 18                             |
| 125           | LA100P125-4               | 4             | 28                                                                                | 23                             |
| 125           | LA100P125-4TI             | 4TI           | 28                                                                                | 23                             |
| 150           | LA100P150-4               | 4             | 41                                                                                | 28                             |
| 150           | LA100P150-4TI             | 4TI           | 41                                                                                | 28                             |

| Ampere Rating | Littelfuse Catalog Number | Mounting Type | Maximum Clearing I <sup>2</sup> t @1000 VAC (A <sup>2</sup> S x 10 <sup>3</sup> ) | Watts Loss @ Rated Current (W) |
|---------------|---------------------------|---------------|-----------------------------------------------------------------------------------|--------------------------------|
| 200           | LA100P200-4               | 4             | 72                                                                                | 36                             |
| 200           | LA100P200-4TI             | 4TI           | 72                                                                                | 36                             |
| 225           | LA100P225-4               | 4             | 91                                                                                | 40                             |
| 250           | LA100P250-4               | 4             | 110                                                                               | 46                             |
| 300           | LA100P300-4               | 4             | 160                                                                               | 55                             |
| 300           | LA100P300-4TI             | 4TI           | 160                                                                               | 55                             |
| 350           | LA100P350-4               | 4             | 220                                                                               | 65                             |
| 350           | LA100P350-4TI             | 4TI           | 220                                                                               | 65                             |
| 400           | LA100P400-4               | 4             | 290                                                                               | 70                             |
| 400           | LA100P400-4TI             | 4TI           | 290                                                                               | 70                             |
| 500           | LA100P500-4               | 4             | 450                                                                               | 90                             |
| 500           | LA100P500-4TI             | 4TI           | 450                                                                               | 90                             |
| 600           | LA100P600-4               | 4             | 650                                                                               | 110                            |
| 600           | LA100P600-4TI             | 4TI           | 650                                                                               | 110                            |
| 650           | LA100P650-4               | 4             | 780                                                                               | 120                            |
| 700           | LA100P700-4               | 4             | 880                                                                               | 125                            |
| 800           | LA100P800-4               | 4             | 1200                                                                              | 140                            |
| 800           | LA100P800-4TI             | 4TI           | 1200                                                                              | 140                            |
| 1000          | LA100P1000-4              | 4             | 1900                                                                              | 190                            |

Figure 1

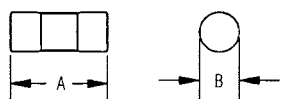


Figure 2

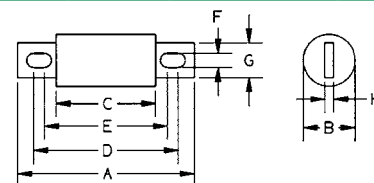


Figure 3

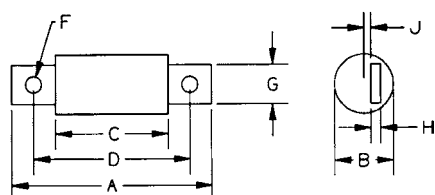
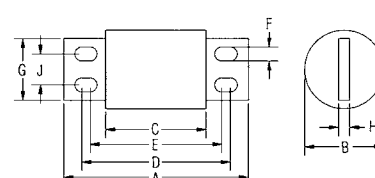


Figure 4



### Dimensions

Dimensions for reference only.

| Amperes   | Mount. Type | Fig. No. | Dimensions in Inches (mm in parentheses) |                |                |               |               |                |                |                |                |
|-----------|-------------|----------|------------------------------------------|----------------|----------------|---------------|---------------|----------------|----------------|----------------|----------------|
|           |             |          | A                                        | B              | C              | D             | E             | F              | G              | H              | J              |
| 15 – 30   | 1           | 1        | 2.53<br>(66.8)                           | 0.56<br>(14.2) | –              | –             | –             | –              | –              | –              | –              |
| 35 – 60   | 4, 4TI      | 2        | 5.00<br>(127)                            | 1.00<br>(25.4) | 3.50<br>(173)  | 4.31<br>(109) | 4.19<br>(106) | 0.31<br>(7.9)  | 0.75<br>(19.1) | 0.13<br>(3.3)  | –              |
| 65 – 100  | 4, 4TI      | 2        | 5.00<br>(127)                            | 1.22<br>(31)   | 3.50<br>(173)  | 4.31<br>(109) | 4.19<br>(106) | 0.31<br>(7.9)  | 1.00<br>(25.4) | 0.19<br>(4.8)  | –              |
| 125 – 200 | 4, 4TI      | 2        | 5.72<br>(145)                            | 2.00<br>(50.8) | 3.47<br>(88.1) | 4.78<br>(121) | 4.16<br>(106) | 0.41<br>(10.4) | 1.00<br>(25.4) | 0.25<br>(6.4)  | –              |
| 225 – 400 | 4, 4TI      | 2        | 5.72<br>(145)                            | 2.00<br>(50.8) | 3.47<br>(88.1) | 4.78<br>(121) | 4.16<br>(106) | 0.41<br>(10.4) | 1.50<br>(38.1) | 0.25<br>(6.4)  | –              |
| 500 – 600 | 4, 4TI      | 2        | 7.72<br>(196)                            | 2.50<br>(63.5) | 3.47<br>(88.1) | 5.88<br>(149) | 5.56<br>(141) | 0.53<br>(13.5) | 2.00<br>(50.8) | 0.38<br>(9.7)  | –              |
| 650 – 800 | 4, 4TI      | 3        | 7.44<br>(189)                            | 2.88<br>(73.2) | 3.94<br>(100)  | 5.94<br>(151) | –             | 0.63<br>(16)   | 2.00<br>(50.8) | 0.38<br>(9.7)  | 0.31<br>(7.9)  |
| 1000      | 4           | 4        | 8.22<br>(209)                            | 3.50<br>(88.9) | 4.47<br>(114)  | 6.59<br>(167) | 5.84<br>(148) | 0.63<br>(16)   | 2.75<br>(69.9) | 0.50<br>(12.7) | 1.38<br>(35.1) |

Contact Littelfuse for characteristic curves.

## LA120X Semiconductor Fuses

1200 VAC • Very Fast Acting • 1/2 – 30 Amperes



Littelfuse LA120X semiconductor protection fuses, rated 1/2 through 30A, 1200 VAC are popular for use in traction drive auxiliary circuits and similar applications. LA120X fuses are also suitable for use on 1000VDC auxiliary circuits with low time constants.

### Features

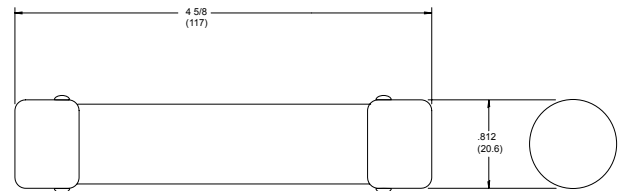
- 1000 Volt DC rating for a wide range of circuits.
- Compact size fits in where competitive sizes will not fit.

### Applications

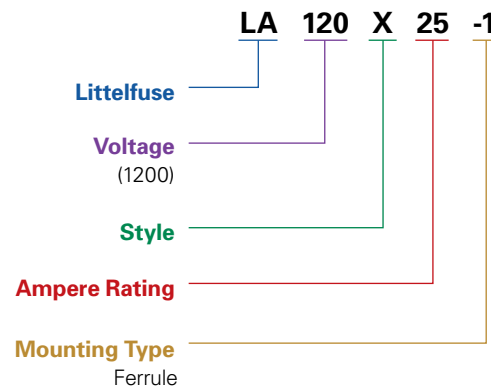
Protection of traction drive auxiliary circuits, etc.

### Dimensions

In Inches (mm in parentheses)



### Ordering Information



### Catalog Numbers & Technical Data

| Ampere Rating | Littelfuse Catalog Number | Mounting Type | Maximum Clearing I <sup>2</sup> t @1200 VAC (A <sup>2</sup> S) |
|---------------|---------------------------|---------------|----------------------------------------------------------------|
| 1/2           | LA120A1/2-1               | 1             | 1.9                                                            |
| 1             | LA120X1-1                 | 1             | 7.5                                                            |
| 2             | LA120X2-1                 | 1             | 30                                                             |
| 3             | LA120X3-1                 | 1             | 69                                                             |
| 4             | LA120X4-1                 | 1             | 120                                                            |
| 5             | LA120X5-1                 | 1             | 190                                                            |
| 6             | LA120X6-1                 | 1             | 280                                                            |
| 10            | LA120X10-1                | 1             | 970                                                            |
| 15            | LA120X15-1                | 1             | 2100                                                           |
| 20            | LA120X20-1                | 1             | 3700                                                           |
| 25            | LA120X25-1                | 1             | 5700                                                           |
| 30            | LA120X30-1                | 1             | 8300                                                           |

### Specifications

**Voltage Rating:** AC: 1200 Volts  
DC: 1000 Volts

**Interrupting Rating:** 100,000 Amperes

**Ampere Range:** 1/2 – 30 Amperes

*Note: Mounting type 1 can use 109002 and 129002 clips.*

## Square Body Semiconductor Fuses

700/1300 VAC • Very Fast Acting • 40 – 2500 Amperes



Littelfuse North American style square body semiconductor fuses provide maximum flexibility in equipment design and ultimate protection for today's power conversion equipment. Available in different body sizes and multiple mounting styles, the broad range of ampere ratings allows great flexibility in equipment design.

Engineered to provide state-of-the-art protection for SCR's, diodes, thyristors, GTO's, and IGBT devices, Littelfuse square body fuses have pure die-cut elements embedded in solidified sand to control arcing and lower  $I^2t$ . All fuses are also equipped with a blown fuse trip indicator.

### Features

- Choice of mounting styles provides a wide choice for equipment design.
- Broad range of ampere ratings in a given body size for design flexibility.
- Very low  $I^2t$  minimizes damage to protected components.
- Superior cycling ability for long, reliable life on high cyclic loading.
- Extremely fast acting and current-limiting for improved protection to equipment.

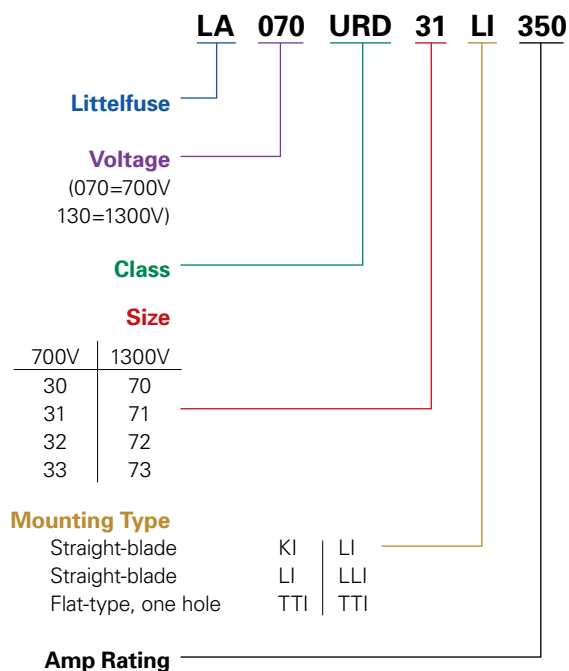
### Applications

Protection of rectifiers, inverters, DC drives, UPS systems, reduced voltage motor starters, and other equipment in globally accepted applications.

### Specifications

|                             |                                                        |
|-----------------------------|--------------------------------------------------------|
| <b>Voltage Rating:</b>      | AC: 700 Volts (LA070)                                  |
|                             | 1300 Volts (LA130)                                     |
| <b>Interrupting Rating:</b> | DC: Contact factory                                    |
|                             | AC: 200,000 Amperes (LA070)<br>100,000 Amperes (LA130) |
| <b>Ampere Range:</b>        | DC: Contact factory                                    |
|                             | 40 – 2500 Amperes                                      |
| <b>Approvals:</b>           | UL Recognized Component                                |

### Ordering Information



## Square Body Semiconductor Fuses

700/1300 VAC • Very Fast-Acting • 40 – 2500 Amperes

### 700 Volt North American Style Ratings and Application Data

| Body Size | Amp Rating | Rated Voltage | Melting I <sup>2</sup> t (A <sup>2</sup> S x 10 <sup>3</sup> ) | Total I <sup>2</sup> t @ Rated Voltage (A <sup>2</sup> S x 10 <sup>3</sup> ) | **Watts Loss @ Rated Current (W) | Long Blade Catalog No. Type LI | Short Blade Catalog No. Type KI | Tapped Terminal Catalog No. Type TTI |
|-----------|------------|---------------|----------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------|--------------------------------|---------------------------------|--------------------------------------|
| 30        | 63         | 700           | 0.2                                                            | 1.2                                                                          | 14                               | LA070URD30LI0063               | LA070URD30KI0063                | LA070URD30TTI0063                    |
|           | 80         | 700           | 0.33                                                           | 1.9                                                                          | 19                               | LA070URD30LI0080               | LA070URD30KI0080                | LA070URD30TTI0080                    |
|           | 100        | 700           | 0.47                                                           | 2.7                                                                          | 26                               | LA070URD30LI0100               | LA070URD30KI0100                | LA070URD30TTI0100                    |
|           | 125        | 700           | 0.85                                                           | 4.9                                                                          | 30                               | LA070URD30LI0125               | LA070URD30KI0125                | LA070URD30TTI0125                    |
|           | 160        | 700           | 1.6                                                            | 9.2                                                                          | 37                               | LA070URD30LI0160               | LA070URD30KI0160                | LA070URD30TTI0160                    |
|           | 200        | 700           | 3                                                              | 16.7                                                                         | 42/43                            | LA070URD30LI0200               | LA070URD30KI0200                | LA070URD30TTI0200                    |
|           | 250        | 700           | 5.8                                                            | 32.4                                                                         | 48/50                            | LA070URD30LI0250               | LA070URD30KI0250                | LA070URD30TTI0250                    |
|           | 315        | 700           | 12                                                             | 67                                                                           | 53/55                            | LA070URD30LI0315               | LA070URD30KI0315                | LA070URD30TTI0315                    |
|           | 350        | 700           | 15.5                                                           | 86                                                                           | 57/60                            | LA070URD30LI0350               | LA070URD30KI0350                | LA070URD30TTI0350                    |
|           | 400        | 700           | 23                                                             | 130                                                                          | 60/65                            | LA070URD30LI0400               | LA070URD30KI0400                | LA070URD30TTI0400                    |
|           | 450        | 700           | 26                                                             | 165                                                                          | 80/88                            | LA070URD30LI0450               | LA070URD30KI0450                | LA070URD30TTI0450                    |
|           | 500        | 700           | 41                                                             | 264                                                                          | 80/88                            | LA070URD30LI0500               | LA070URD30KI0500                | LA070URD30TTI0500                    |
|           | 550        | 700           | 52                                                             | 330                                                                          | 80/90                            | LA070URD30LI0550               | LA070URD30KI0550                | LA070URD30TTI0550                    |
|           | 200        | 700           | 2.5                                                            | 14.6                                                                         | 45                               | LA070URD31LI0200               | LA070URD31KI0200                | LA070URD31TTI0200                    |
|           | 250        | 700           | 4.7                                                            | 27                                                                           | 52                               | LA070URD31LI0250               | LA070URD31KI0250                | LA070URD31TTI0250                    |
| 31        | 315        | 700           | 7.5                                                            | 43                                                                           | 65                               | LA070URD31LI0315               | LA070URD31KI0315                | LA070URD31TTI0315                    |
|           | 350        | 700           | 10.5                                                           | 59                                                                           | 67                               | LA070URD31LI0350               | LA070URD31KI0350                | LA070URD31TTI0350                    |
|           | 400        | 700           | 19                                                             | 110                                                                          | 68                               | LA070URD31LI0400               | LA070URD31KI0400                | LA070URD31TTI0400                    |
|           | 450        | 700           | 26.5                                                           | 150                                                                          | 70                               | LA070URD31LI0450               | LA070URD31KI0450                | LA070URD31TTI0450                    |
|           | 500        | 700           | 37                                                             | 210                                                                          | 70/72                            | LA070URD31LI0500               | LA070URD31KI0500                | LA070URD31TTI0500                    |
|           | 550        | 700           | 52                                                             | 300                                                                          | 70/75                            | LA070URD31LI0550               | LA070URD31KI0550                | LA070URD31TTI0550                    |
|           | 630        | 700           | 75                                                             | 421                                                                          | 75/85                            | LA070URD31LI0630               | LA070URD31KI0630                | LA070URD31TTI0630                    |
|           | 700        | 700           | 95                                                             | 530                                                                          | 85/95                            | LA070URD31LI0700               | LA070URD31KI0700                | LA070URD31TTI0700                    |
|           | 800        | 700           | 140                                                            | 880                                                                          | 105/120                          | LA070URD31LI0800               | LA070URD31KI0800                | LA070URD31TTI0800                    |
|           | 400        | 700           | 15                                                             | 86                                                                           | 72/75                            | LA070URD32LI0400               | LA070URD32KI0400                | LA070URD32TTI0400                    |
|           | 450        | 700           | 22                                                             | 124                                                                          | 77/80                            | LA070URD32LI0450               | LA070URD32KI0450                | LA070URD32TTI0450                    |
|           | 500        | 700           | 28                                                             | 157                                                                          | 85/90                            | LA070URD32LI0500               | LA070URD32KI0500                | LA070URD32TTI0500                    |
|           | 550        | 700           | 37                                                             | 211                                                                          | 90/95                            | LA070URD32LI0550               | LA070URD32KI0550                | LA070URD32TTI0550                    |
|           | 630        | 700           | 54                                                             | 302                                                                          | 95/105                           | LA070URD32LI0630               | LA070URD32KI0630                | LA070URD32TTI0630                    |
|           | 700        | 700           | 76                                                             | 432                                                                          | 100/110                          | LA070URD32LI0700               | LA070URD32KI0700                | LA070URD32TTI0700                    |
| 32        | 800        | 700           | 115                                                            | 648                                                                          | 110/120                          | LA070URD32LI0800               | LA070URD32KI0800                | LA070URD32TTI0800                    |
|           | 900        | 700           | 170                                                            | 972                                                                          | 110/125                          | LA070URD32LI0900               | LA070URD32KI0900                | LA070URD32TTI0900                    |
|           | 1000       | 700           | 240                                                            | 1350                                                                         | 115/135                          | LA070URD32LI1000               | LA070URD32KI1000                | LA070URD32TTI1000                    |
|           | 1100       | 650           | 270                                                            | 1620                                                                         | 140/165                          | LA065URD32LI1100               | —                               | LA065URD32TTI1100                    |
|           | 1250       | 600           | 410                                                            | 2100                                                                         | 150/180                          | LA060URD32LI1250               | —                               | LA060URD32TTI1250                    |
|           | 1400       | 550           | 555                                                            | 2600                                                                         | 160/190                          | LA055URD32LI1400               | —                               | LA055URD32TTI1400                    |
|           | 1600       | 550           | 870                                                            | 4000                                                                         | 165/195                          | LA055URD32LI1600               | —                               | LA055URD32TTI1600                    |
|           | 1800       | 500           | 1050                                                           | 4400                                                                         | 195/330                          | LA050URD32LI1800               | —                               | LA050URD32TTI1800                    |
|           | 500        | 700           | 19                                                             | 108                                                                          | 105                              | LA070URD33LI0500               | LA070URD33KI0500                | LA070URD33TTI0500                    |
|           | 550        | 700           | 27                                                             | 151                                                                          | 105/110                          | LA070URD33LI0550               | LA070URD33KI0550                | LA070URD33TTI0550                    |
|           | 630        | 700           | 40                                                             | 227                                                                          | 110/120                          | LA070URD33LI0630               | LA070URD33KI0630                | LA070URD33TTI0630                    |
|           | 700        | 700           | 55                                                             | 324                                                                          | 115/125                          | LA070URD33LI0700               | LA070URD33KI0700                | LA070URD33TTI0700                    |
|           | 800        | 700           | 95                                                             | 529                                                                          | 120/130                          | LA070URD33LI0800               | LA070URD33KI0800                | LA070URD33TTI0800                    |
|           | 900        | 700           | 135                                                            | 760                                                                          | 120/135                          | LA070URD33LI0900               | LA070URD33KI0900                | LA070URD33TTI0900                    |
|           | 1000       | 700           | 170                                                            | 970                                                                          | 135/155                          | LA070URD33LI1000               | LA070URD33KI1000                | LA070URD33TTI1000                    |
| 33        | 1100       | 700           | 240                                                            | 1360                                                                         | 135/160                          | LA070URD33LI1100               | LA070URD33KI1100                | LA070URD33TTI1100                    |
|           | 1250       | 700           | 350                                                            | 2000                                                                         | 150/180                          | LA070URD33LI1250               | LA070URD33KI1250                | LA070URD33TTI1250                    |
|           | 1400       | 700           | 480                                                            | 2700                                                                         | 160/200                          | LA070URD33LI1400               | LA070URD33KI1400                | LA070URD33TTI1400                    |
|           | 1600       | 650           | 555                                                            | 3250                                                                         | 210/240                          | LA065URD33LI1600               | —                               | LA065URD33TTI1600                    |
|           | 1800       | 650           | 720                                                            | 4330                                                                         | 225/260                          | LA065URD33LI1800               | —                               | LA065URD33TTI1800                    |
|           | 2000       | 600           | 950                                                            | 5000                                                                         | 250/290                          | LA060URD33LI2000               | —                               | LA060URD33TTI2000                    |
|           | 2250       | 550           | 1250                                                           | 5900                                                                         | 280/330                          | LA050URD33LI2250               | —                               | LA050URD33TTI2250                    |
|           | 2500       | 500           | 1870                                                           | 7600                                                                         | 280/330                          | LA050URD33LI2500               | —                               | LA050URD33TTI2500                    |

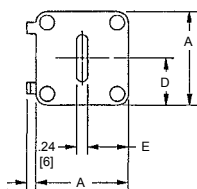
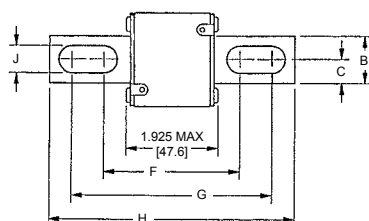
\*\* Watts loss data is published for both blade and tapped style mounting configurations. When two watts loss values are shown, this represents tapped/blade values respectively. Contact Littelfuse for characteristic curves.

## Square Body Semiconductor Fuses

700/1300 VAC • Very Fast Acting • 40 – 2500 Amperes

### North American Straight Blade, Type KI

#### TYPES KI AND LI



#### Dimensions - 700V Fuses

Dimensions for reference only.

| Catalog Number          | Dimensions in Inches (mm in parentheses) |              |                |                |                |                |                 |                 |                |
|-------------------------|------------------------------------------|--------------|----------------|----------------|----------------|----------------|-----------------|-----------------|----------------|
|                         | A                                        | B            | C              | D              | E              | F              | G               | H               | J              |
| LA070URD30KI (63-550)   | 1.57<br>(40)                             | 0.98<br>(25) | 0.49<br>(12.5) | 0.83<br>(21)   | 0.71<br>(18)   | 2.68<br>(68)   | 4.21<br>(107)   | 5.08<br>(129)   | 0.41<br>(10.5) |
| LA070URD31KI (200-800)  | 2.01<br>(51)                             | 0.98<br>(25) | 0.49<br>(12.5) | 1.0<br>(25.5)  | 0.89<br>(22.5) | 2.66<br>(67.6) | 4.22<br>(107.1) | 5.07<br>(128.8) | 0.56<br>(14.3) |
| LA070URD32KI (400-1000) | 2.36<br>(60)                             | 1.26<br>(32) | 0.63<br>(16)   | 1.18<br>(30)   | 1.06<br>(27)   | 2.92<br>(74.2) | 4.29<br>(109)   | 5.28<br>(134)   | 0.57<br>(14.6) |
| LA070URD33KI (500-1400) | 2.93<br>(74.5)                           | 1.57<br>(40) | 0.79<br>(20)   | 1.46<br>(37.2) | 1.35<br>(34.2) | 2.97<br>(75.4) | 4.24<br>(107.6) | 5.28<br>(134)   | 0.63<br>(15.9) |

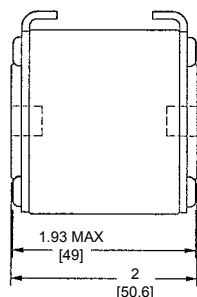
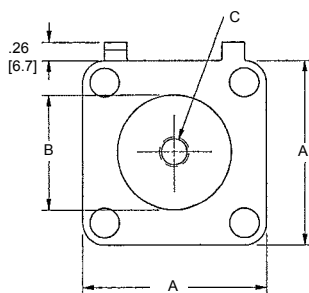
### North American Straight Blade Types LI

#### Dimensions - 700V Fuses

Dimensions for reference only.

| Catalog Number                                                                                                           | Dimensions in Inches (mm in parentheses) |              |                |                |                |                |                 |                 |                |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------|----------------|----------------|----------------|----------------|-----------------|-----------------|----------------|
|                                                                                                                          | A                                        | B            | C              | D              | E              | F              | G               | H               | J              |
| LA070URD30LI (63-550)                                                                                                    | 1.57<br>(40)                             | 0.98<br>(25) | 0.49<br>(12.5) | 0.83<br>(21)   | 0.71<br>(18)   | 3.45<br>(87.6) | 4.98<br>(126.6) | 5.85<br>(148.6) | 0.41<br>(10.5) |
| LA070URD31LI (200-800)                                                                                                   | 2.01<br>(51)                             | 0.98<br>(25) | 0.49<br>(12.5) | 1.0<br>(25.5)  | 0.89<br>(22.5) | 3.61<br>(91.6) | 4.82<br>(122.4) | 5.85<br>(148.6) | 0.57<br>(14.6) |
| LA070URD32LI (400-1000)<br>LA065URD32LI (1250)<br>LA055URD32LI (1400-1600)<br>LA050URD32LI (1800)                        | 2.36<br>(60)                             | 1.26<br>(32) | 0.63<br>(16)   | 1.18<br>(30)   | 1.06<br>(27)   | 3.71<br>(94.2) | 5.08<br>(129)   | 6.02<br>(153)   | 0.57<br>(14.6) |
| LA070URD33LI (500-1400)<br>LA065URD33LI (1600-1800)<br>LA060URD33LI (2000)<br>LA055URD33LI (2250)<br>LA050URD33LI (2500) | 2.93<br>(74.5)                           | 1.57<br>(40) | 0.79<br>(20)   | 1.46<br>(37.2) | 1.35<br>(34.2) | 3.72<br>(94.4) | 4.98<br>(126.6) | 6.02<br>(153)   | 0.63<br>(15.9) |

#### TYPE TTI



### North American Flat Single Hole, Type TTI

#### Dimensions - 700V Fuses

Dimensions for reference only.

| Catalog Number                                                                                                                                   | Dimensions in Inches (mm in parentheses) |                |                |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------|----------------|
|                                                                                                                                                  | A                                        | B              | C              |
| LA070URD30TTI (100-550)                                                                                                                          | 1.57<br>(40)                             | 1.00<br>(25)   | 5/16-18 x 0.35 |
| LA070URD31TTI (200-800)                                                                                                                          | 2.00<br>(50.8)                           | 1.19<br>(30.2) | 5/16-18 x 0.35 |
| LA070URD32TTI (400-1000)<br>LA065URD32TTI (1100)<br>LA060URD32TTI (1250)<br>LA055URD32TTI (1400-1600)                                            | 2.37<br>(60.3)                           | 1.50<br>(38.1) | 3/8-16 x 0.35  |
| LA060URD33TTI (1800)<br>LA070URD33TTI (500-1400)<br>LA065URD33TTI (1600)<br>LA060URD33TTI (2000)<br>LA055URD33TTI (2250)<br>LA050URD33TTI (2500) | 2.94<br>(74.5)                           | 1.81<br>(46)   | 1/2-18 x 0.35  |

## Square Body Semiconductor Fuses

700/1300 VAC • Very Fast Acting • 40 – 2500 Amperes

### 1300 Volt North American Style Ratings and Application Data

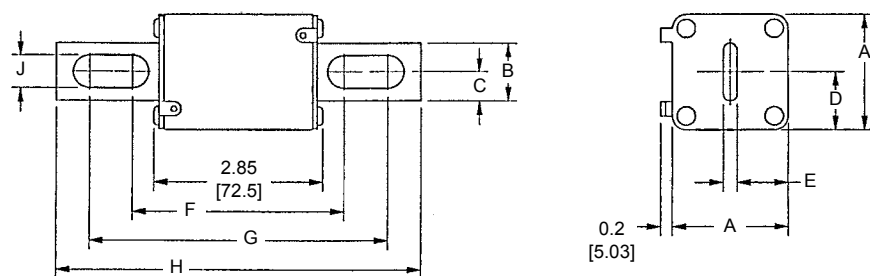
| Body Size | Amp Rating | Rated Voltage | Melting I <sup>2</sup> t<br>(A <sup>2</sup> S x 10 <sup>3</sup> ) | Total I <sup>2</sup> t @<br>Rated Voltage<br>(A <sup>2</sup> S x 10 <sup>3</sup> ) | **Watts Loss @<br>Rated Current (W) | Long Blade<br>Catalog No. Type LI/LLI | Tapped Terminal<br>Catalog No. Type TTI |
|-----------|------------|---------------|-------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------|-----------------------------------------|
| 70        | 63         | 1300          | 0.21                                                              | 1.8                                                                                | 26                                  | LA130URD70LI0063                      | LA130URD70TTI0063                       |
|           | 80         | 1300          | 0.47                                                              | 4                                                                                  | 27                                  | LA130URD70LI0080                      | LA130URD70TTI0080                       |
|           | 100        | 1300          | 0.83                                                              | 7.2                                                                                | 30                                  | LA130URD70LI0100                      | LA130URD70TTI0100                       |
|           | 125        | 1300          | 1.3                                                               | 11                                                                                 | 38                                  | LA130URD70LI0125                      | LA130URD70TTI0125                       |
|           | 160        | 1300          | 2.5                                                               | 22                                                                                 | 45                                  | LA130URD70LI0160                      | LA130URD70TTI0160                       |
|           | 200        | 1300          | 4.7                                                               | 40                                                                                 | 54/56                               | LA130URD70LI0200                      | LA130URD70TTI0200                       |
|           | 250        | 1300          | 9.6                                                               | 82                                                                                 | 58/61                               | LA130URD70LI0250                      | LA130URD70TTI0250                       |
|           | 315        | 1300          | 20                                                                | 172                                                                                | 66/72                               | LA130URD70LI0315                      | LA130URD70TTI0315                       |
|           | 350        | 1200          | 28                                                                | 205                                                                                | 68/75                               | LA120URD70LI0350                      | LA120URD70TTI0350                       |
| 71        | 160        | 1300          | 2.6                                                               | 22                                                                                 | 46                                  | LA130URD71LI0160                      | LA130URD71TTI0160                       |
|           | 200        | 1300          | 4.7                                                               | 40                                                                                 | 54                                  | LA130URD71LI0200                      | LA130URD71TTI0200                       |
|           | 250        | 1300          | 8.9                                                               | 76                                                                                 | 61                                  | LA130URD71LI0250                      | LA130URD71TTI0250                       |
|           | 280        | 1300          | 12                                                                | 102                                                                                | 68/70                               | LA130URD71LI0280                      | LA130URD71TTI0280                       |
|           | 315        | 1300          | 16                                                                | 138                                                                                | 73/76                               | LA130URD71LI0315                      | LA130URD71TTI0315                       |
|           | 350        | 1300          | 22                                                                | 190                                                                                | 76/80                               | LA130URD71LI0350                      | LA130URD71TTI0350                       |
|           | 400        | 1300          | 38                                                                | 330                                                                                | 76/80                               | LA130URD71LI0400                      | LA130URD71TTI0400                       |
|           | 450        | 1300          | 47                                                                | 405                                                                                | 87/95                               | LA130URD71LI0450                      | LA130URD71TTI0450                       |
|           | 500        | 1200          | 68                                                                | 500                                                                                | 90/100                              | LA120URD71LI0500                      | LA120URD71TTI0500                       |
|           | 550        | 1200          | 84                                                                | 620                                                                                | 98/112                              | LA120URD71LI0550                      | LA120URD71TTI0550                       |
|           | 630        | 1100          | 125                                                               | 930                                                                                | 105                                 | LA110URD71LI0630                      | —                                       |
|           | 630        | 1200          | 125                                                               | 930                                                                                | 120                                 | —                                     | LA120URD71TTI0630                       |
| 72        | 280        | 1300          | 10                                                                | 90                                                                                 | 72                                  | LA130URD72LI0280                      | LA130URD72TTI0280                       |
|           | 315        | 1300          | 15                                                                | 130                                                                                | 76                                  | LA130URD72LI0315                      | LA130URD72TTI0315                       |
|           | 350        | 1300          | 21                                                                | 180                                                                                | 77                                  | LA130URD72LI0350                      | LA130URD72TTI0350                       |
|           | 400        | 1300          | 32                                                                | 285                                                                                | 80                                  | LA130URD72LI0400                      | LA130URD72TTI0400                       |
|           | 450        | 1300          | 44                                                                | 380                                                                                | 87/89                               | LA130URD72LI0450                      | LA130URD72TTI0450                       |
|           | 500        | 1300          | 57                                                                | 500                                                                                | 94/98                               | LA130URD72LI0500                      | LA130URD72TTI0500                       |
|           | 550        | 1300          | 68                                                                | 590                                                                                | 110/120                             | LA130URD72LI0550                      | LA130URD72TTI0550                       |
|           | 630        | 1200          | 105                                                               | 920                                                                                | 113                                 | LA120URD72LI0630                      | —                                       |
|           | 630        | 1300          | 105                                                               | 920                                                                                | 125                                 | —                                     | LA130URD72TTI0630                       |
|           | 700        | 1100          | 145                                                               | 1040                                                                               | 122                                 | LA110URD72LI0700                      | —                                       |
|           | 700        | 1200          | 145                                                               | 1040                                                                               | 140                                 | —                                     | LA120URD72TTI0700                       |
|           | 800        | 1100          | 215                                                               | 1590                                                                               | 125                                 | LA110URD72LI0800                      | —                                       |
|           | 800        | 1200          | 215                                                               | 1590                                                                               | 146                                 | —                                     | LA120URD72TTI0800                       |
| 73        | 315        | 1300          | 12                                                                | 102                                                                                | 84                                  | LA130URD73LI0315                      | LA130URD73TTI0315                       |
|           | 350        | 1300          | 17                                                                | 150                                                                                | 86                                  | LA130URD73LI0350                      | LA130URD73TTI0350                       |
|           | 400        | 1300          | 25                                                                | 220                                                                                | 93                                  | LA130URD73LI0400                      | LA130URD73TTI0400                       |
|           | 450        | 1300          | 35                                                                | 310                                                                                | 99/100                              | LA130URD73LI0450                      | LA130URD73TTI0450                       |
|           | 500        | 1300          | 44                                                                | 390                                                                                | 110/112                             | LA130URD73LI0500                      | LA130URD73TTI0500                       |
|           | 550        | 1300          | 57                                                                | 500                                                                                | 116/120                             | LA130URD73LI0550                      | LA130URD73TTI0550                       |
|           | 630        | 1300          | 84                                                                | 730                                                                                | 125/132                             | LA130URD73LI0630                      | LA130URD73TTI0630                       |
|           | 700        | 1300          | 110                                                               | 960                                                                                | 135/146                             | LA130URD73LI0700                      | LA130URD73TTI0700                       |
|           | 800        | 1200          | 190                                                               | 1630                                                                               | 136                                 | LA120URD73LI0800                      | —                                       |
|           | 800        | 1300          | 190                                                               | 1630                                                                               | 148                                 | —                                     | LA130URD73TTI0800                       |
|           | 900        | 1100          | 250                                                               | 2160                                                                               | 150                                 | LA110URD73LI0900                      | —                                       |
|           | 900        | 1300          | 250                                                               | 2160                                                                               | 170                                 | —                                     | LA130URD73TTI0900                       |
|           | 1000       | 1100          | 370                                                               | 2430                                                                               | 152/174                             | LA100URD73LI1000                      | LA100URD73TTI1000                       |
|           | 1100       | 1000          | 445                                                               | 2580                                                                               | 168/208                             | LA100URD73LI1100                      | LA100URD73TTI1100                       |
|           | 1250       | 1000          | 585                                                               | 3480                                                                               | 186/200                             | LA100URD73LI1250                      | LA100URD73TTI1250                       |
|           | 1400       | 900           | 755                                                               | 3880                                                                               | 210/228                             | LA090URD73LI1400                      | LA090URD73TTI1400                       |
|           | 1600       | 700           | 1430                                                              | 5630                                                                               | 203                                 | LA070URD73LI1600                      | LA070URD73TTI1600                       |
|           | 1800       | 660           | 2040                                                              | 7600                                                                               | 206                                 | LA065URD73LI1800                      | LA065URD73TTI1800                       |

\*\* Watts loss data is published for both blade and tapped style mounting configurations.  
When two watts loss values are shown, this represents tapped/blade values respectively.  
Contact Littelfuse for characteristic curves.

## Square Body Semiconductor Fuses

700/1300 VAC • Very Fast Acting • 40 – 2500 Amperes

### TYPES LI AND LLI



### North American Straight Blade, Types LI and LLI

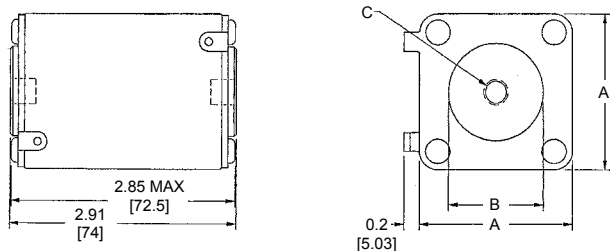
#### Dimensions - 1300V Fuses

Dimensions for reference only.

| Catalog Number                                                                                                                               | Dimensions In Inches (mm in parentheses) |              |                |                |                |                |                 |                 |                |
|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------|----------------|----------------|----------------|----------------|-----------------|-----------------|----------------|
|                                                                                                                                              | A                                        | B            | C              | D              | E              | F              | G               | H               | J              |
| LA130URD70LI (63-315)<br>LA120URD70LI (350)                                                                                                  | 1.57<br>(40)                             | 0.98<br>(25) | 0.49<br>(12.5) | 0.83<br>(21)   | 0.71<br>(18)   | 3.60<br>(91.4) | 5.13<br>(130.4) | 6.00<br>(152.4) | 0.41<br>(10.5) |
| LA130URD71LLI (160-450)<br>LA120URD71LLI (500-550)<br>LA110URD71LLI (630)                                                                    | 2.01<br>(51)                             | 0.98<br>(25) | 0.49<br>(12.5) | 1.0<br>(26.5)  | 0.89<br>(22.5) | 3.60<br>(91.4) | 5.13<br>(130.4) | 6.00<br>(152.4) | 0.57<br>(14.6) |
| LA130URD72LI (280-550)<br>LA120URD72LI (800)<br>LA110URD72LI (700-800)                                                                       | 2.36<br>(60)                             | 1.26<br>(32) | 0.63<br>(16)   | 1.18<br>(30)   | 1.06<br>(27)   | 3.84<br>(97.6) | 5.2<br>(132.4)  | 6.20<br>(157.4) | 0.57<br>(14.6) |
| LA130URD73LI (315-700)<br>LA120URD73LI (800)<br>LA110URD73LI (900-1000)<br>LA090URD73LI (1400)<br>LA070URD73LI (1600)<br>LA065URD73LI (1800) | 2.93<br>(74.5)                           | 1.57<br>(40) | 0.79<br>(20)   | 1.46<br>(37.2) | 1.35<br>(34.2) | 3.89<br>(98.8) | 5.21<br>(132.4) | 6.20<br>(157.4) | 0.63<br>(15.9) |

### North American Flat Single Hole, Type TTI

#### TYPE TTI



#### Dimensions - 1300V Fuses

Dimensions for reference only.

| Catalog Number                                                                                                                                  | Dimensions in Inches (mm) |                |                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------|-------------------|
|                                                                                                                                                 | A                         | B              | C                 |
| LA130URD70TTI (63-315)<br>LA120URD70TTI (350)                                                                                                   | 1.57<br>(40)              | 1.00<br>(26.4) | 5/16-18 x 0.23 DP |
| LA130URD71TTI (160-450)<br>LA120URD71TTI (550-630)                                                                                              | 2.01<br>(51)              | 1.19<br>(30.2) | 5/16-18 x 0.36 DP |
| LA130URD72TTI (280-630)<br>LA120URD72TTI (700-800)                                                                                              | 2.36<br>(60)              | 1.50<br>(38.1) | 3/8-18 x 0.36 DP  |
| LA130URD73TTI (315-900)<br>LA120URD73TTI (1000)<br>LA110URD73TTI (1250)<br>LA090URD73TTI (1400)<br>LA070URD73TTI (1600)<br>LA065URD73TTI (1800) | 2.93<br>(74.5)            | 1.81<br>(46)   | 1/2-18 x 0.36 DP  |

# Mouser Electronics

Authorized Distributor

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## Littelfuse:

[LA130URD73TTI0350](#) [LA130URD72TTI0315](#) [LA070URD31TTI0350](#) [LA130URD71TTI0350](#) [LA130URD70TTI0315](#)  
[LA070URD30TTI0315](#) [LA130URD73TTI0315](#) [LA130URD72TTI0350](#) [LA070URD30TTI0350](#) [LA130URD71TTI0315](#)  
[LA070URD31TTI0315](#) [LA120URD70TTI0350](#) [LA070URD33TTI0700](#) [LA130URD73TTI0700](#) [LA070URD31TTI0700](#)  
[LA120URD72TTI0700](#) [LA070URD32TTI0700](#) [LA110URD73LI0900](#) [LA130URD71LLI0250](#) [LA130URD71LLI0200](#)  
[LA130URD71LLI0280](#) [LA130URD70LI0250](#) [LA130URD72LI0280](#) [LA130URD70LI0200](#) [LA065URD32TTI1100](#)  
[LA130URD73LI0450](#) [LA130URD72LI0450](#) [LA050URD32LI1800](#) [LA130URD72LI0400](#) [LA130URD73LI0400](#)  
[LA090URD73LI1400](#) [LA130URD70LI0080](#) [LA130URD70LI0063](#) [LA065URD33LI1800](#) [LA065URD73LI1800](#)  
[LA120URD73LI0800](#) [LA130URD71LLI0450](#) [LA130URD71LLI0400](#) [LA055URD32TTI1400](#) [LA130URD71LLI0315](#)  
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[LA130URD72LI0350](#) [LA120URD70LI0350](#) [LA130URD73LI0350](#) [LA065URD33TTI1800](#) [LA130URD73LI0700](#)  
[LA065URD73TTI1800](#) [LA060URD33LI2000](#) [LA065URD32LI1100](#) [LA130URD70LI0125](#) [LA130URD70LI0160](#)  
[LA130URD70LI0100](#) [LA065URD33TTI1600](#) [LA055URD32TTI1600](#) [LA120URD71LLI0550](#) [LA120URD71LLI0500](#)  
[LA130URD73LI0550](#) [LA130URD72LI0550](#) [LA130URD72LI0500](#) [LA130URD73LI0500](#) [LA130URD71LLI0160](#)  
[LA070URD32TTI0450](#) [LA130URD72TTI0450](#) [LA070URD30TTI0450](#) [LA070URD31TTI0450](#) [LA130URD71TTI0450](#)  
[LA130URD73TTI0450](#) [LA130URD73TTI0400](#) [LA130URD71TTI0400](#) [LA070URD31TTI0400](#) [LA070URD30TTI0400](#)  
[LA130URD72TTI0400](#) [LA070URD32TTI0400](#) [LA070URD30TTI0063](#) [LA130URD70TTI0063](#) [LA070URD30TTI0080](#)  
[LA130URD70TTI0080](#) [LA070URD31TTI0800](#) [LA070URD33TTI0800](#) [LA130URD73TTI0800](#) [LA120URD72TTI0800](#)  
[LA070URD32TTI0800](#) [LA130URD72TTI0630](#) [LA070URD32TTI0630](#) [LA120URD71TTI0630](#) [LA070URD31TTI0630](#)  
[LA130URD73TTI0630](#) [LA070URD33TTI0630](#) [LA110URD72LI0800](#) [LA055URD33LI2250](#) [LA130URD71TTI0225](#)  
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