

## 5 x 20mm Fuses

### S506 Series, Time-Delay, Glass Tube

#### Description

- Time-delay, low breaking capacity
- Optional axial leads available
- 5 x 20mm physical size
- Glass tube, nickel-plated brass endcap construction
- Designed to IEC 60127-2/3 (32mA-10A) & extensions:12.5A-15A



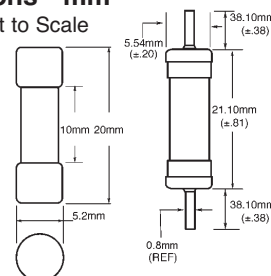
| S506 Electrical Characteristics |                  |                       |                    |                     |       |       |        |
|---------------------------------|------------------|-----------------------|--------------------|---------------------|-------|-------|--------|
| $I_n$                           | $2.1 I_n$<br>max | $2.75 I_n$<br>min max | $4 I_n$<br>min max | $10 I_n$<br>min max |       |       |        |
| 32mA-100mA                      | 2 min            | 200 ms                | 10 sec             | 40 ms               | 3 sec | 10 ms | 300 ms |
| 125mA-6.3A                      | 2 min            | 600 ms                | 10 sec             | 150 ms              | 3 sec | 20 ms | 300 ms |
| 8A-15A                          | 2 min            | 600 ms                | 10 sec             | 150 ms              | 3 sec | 20 ms | 300 ms |

#### Agency Information

- UL Recognized Card: Guide JDYX2, File E19180
- CSA Component Acceptance: File 1803366
- cURus Recognition: Guide JDYX8, File E19180
- SEMKO Approval: File 507078, 415434, 806492
- VDE Approval: File 40011926
- BSI Approval: File KM55676
- IMQ Approval: File E1921, CA03.00530
- PSE/JET: File JET1641-31003-1005, JET1641-31003-1006
- CCC Approval: File 2005010207155693, 2002010207011294

#### Dimensions - mm

Drawing Not to Scale



- Ratings above 4A have a 0.81mm diameter lead

#### Ordering

Specify product code

- Insert packaging code prefix before part number. E.g. BK/S506-1-R

Specify option code if desired

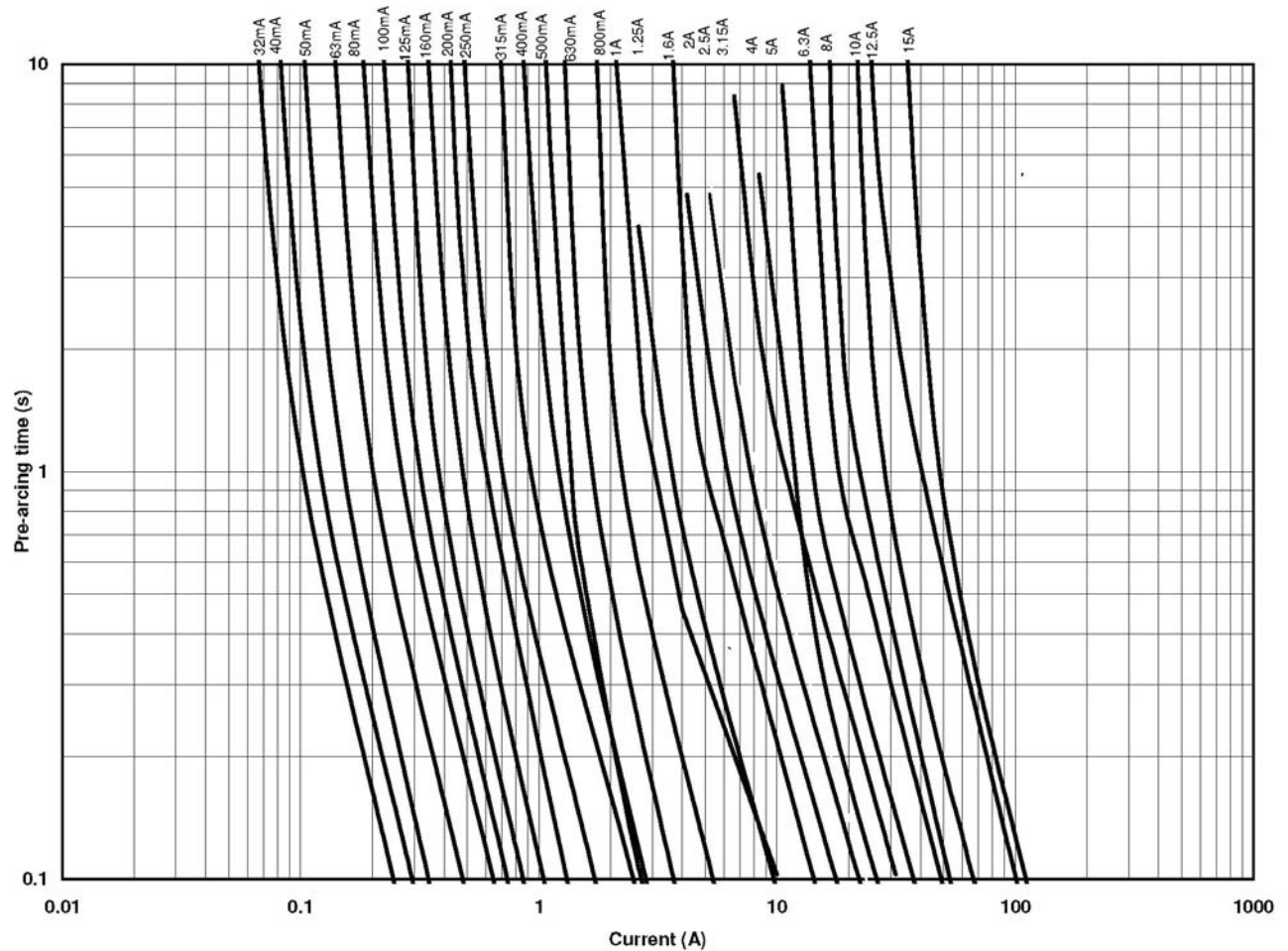
- For axial leads, insert "V" between catalog series and amp rating. E.g. BK/S506-V-2-R

| Product Code | Voltage Rating Vac | Interrupting Rating (amps) at Rated Voltage (50Hz) Vac | Typical DC Cold Resistance ( $\Omega$ )* | Specifications                        |                            | Agency Approvals |     |     |       |    |     |         |     |       |
|--------------|--------------------|--------------------------------------------------------|------------------------------------------|---------------------------------------|----------------------------|------------------|-----|-----|-------|----|-----|---------|-----|-------|
|              |                    |                                                        |                                          | Typical Melting I <sup>t</sup> (amps) | Typical Voltage Drop (mV)‡ | IMQ              | VDE | BSI | SEMKO | UR | CCC | PSE/JET | CSA | cURus |
| S506-32-R    | 250                | 35                                                     | 21.0                                     | 0.0051                                | 1050                       | X                | X   | X   | X     | X  | X   |         |     |       |
| S506-40-R    | 250                | 35                                                     | 13.90                                    | 0.0072                                | 920                        | X                | X   | X   | X     | X  | X   |         |     |       |
| S506-50-R    | 250                | 35                                                     | 9.24                                     | 0.0095                                | 800                        | X                | X   | X   | X     | X  | X   |         | X   |       |
| S506-63-R    | 250                | 35                                                     | 6.96                                     | 0.021                                 | 760                        | X                | X   | X   | X     | X  | X   |         | X   |       |
| S506-80-R    | 250                | 35                                                     | 4.42                                     | 0.038                                 | 580                        | X                | X   | X   | X     | X  | X   |         | X   |       |
| S506-100-R   | 250                | 35                                                     | 2.80                                     | 0.045                                 | 490                        | X                | X   | X   | X     | X  | X   |         | X   |       |
| S506-125-R   | 250                | 35                                                     | 1.97                                     | 0.063                                 | 390                        | X                | X   | X   | X     | X  | X   |         | X   |       |
| S506-160-R   | 250                | 35                                                     | 1.27                                     | 0.093                                 | 320                        | X                | X   | X   | X     | X  | X   |         | X   |       |
| S506-200-R   | 250                | 35                                                     | 1.00                                     | 0.114                                 | 340                        | X                | X   | X   | X     | X  | X   |         | X   |       |
| S506-250-R   | 250                | 35                                                     | 0.640                                    | 0.265                                 | 270                        | X                | X   | X   | X     | X  | X   |         | X   |       |
| S506-315-R   | 250                | 35                                                     | 0.450                                    | 0.621                                 | 250                        | X                | X   | X   | X     | X  | X   |         | X   |       |
| S506-400-R   | 250                | 35                                                     | 0.31                                     | 0.872                                 | 210                        | X                | X   | X   | X     | X  | X   |         | X   |       |
| S506-500-R   | 250                | 35                                                     | 0.183                                    | 0.827                                 | 140                        | X                | X   | X   | X     | X  | X   |         | X   | X     |
| S506-630-R   | 250                | 35                                                     | 0.186                                    | 1.33                                  | 150                        | X                | X   | X   | X     | X  | X   |         | X   | X     |
| S506-800-R   | 250                | 35                                                     | 0.129                                    | 2.78                                  | 75                         | X                | X   | X   | X     | X  | X   |         | X   | X     |
| S506-1-R     | 250                | 35                                                     | 0.0757                                   | 6.45                                  | 87.5                       | X                | X   | X   | X     | X  | X   | X       | X   | X     |
| S506-1.25-R  | 250                | 35                                                     | 0.060                                    | 10.05                                 | 86                         | X                | X   | X   | X     | X  | X   | X       | X   | X     |
| S506-1.6-R   | 250                | 35                                                     | 0.0425                                   | 21.7                                  | 82                         | X                | X   | X   | X     | X  | X   | X       | X   | X     |
| S506-2-R     | 250                | 35                                                     | 0.03325                                  | 31.6                                  | 77                         | X                | X   | X   | X     | X  | X   | X       | X   | X     |
| S506-2.5-R   | 250                | 35                                                     | 0.0255                                   | 59.4                                  | 72.5                       | X                | X   | X   | X     | X  | X   | X       | X   | X     |
| S506-3.15-R  | 250                | 35                                                     | 0.0185                                   | 96.4                                  | 68.5                       | X                | X   | X   | X     | X  | X   | X       | X   | X     |
| S506-4-R     | 250                | 40                                                     | 0.0139                                   | 71.8                                  | 67                         | X                | X   | X   | X     | X  | X   | X       | X   | X     |
| S506-5-R     | 250                | 50                                                     | 0.00985                                  | 142.5                                 | 60.5                       | X                | X   | X   | X     | X  | X   | X       | X   | X     |
| S506-6.3-R   | 250                | 63                                                     | 0.0071                                   | 237.6                                 | 54                         | X                | X   | X   | X     | X  | X   | X       | X   | X     |
| S506-8-R     | 250                | 80                                                     | 0.007                                    | 255.8                                 | 55                         | X                | X   | X   | X     | X  |     | X       | X   | X     |
| S506-10-R    | 250                | 100                                                    | 0.005                                    | 450                                   | 54                         | X                | X   | X   | X     | X  |     | X       | X   | X     |
| S506-12.5-R  | 250                | 125                                                    | 0.004                                    | 1019.5                                | 45                         |                  |     |     |       | X  |     | X       |     | X     |
| S506-15-R    | 250                | 125                                                    | 0.004                                    | 1091.7                                | 65.5                       |                  |     |     |       | X  |     | X       |     | X     |

\* DC Cold Resistance (measured at <10% of rated current)

‡ Typical Voltage Drop (voltage drop was measured at 20°C ambient temperature at rated current)

## Nominal Time-Current Characteristics of S506-R



### Packaging Code

| Packaging Code Suffix | Description                                                       |
|-----------------------|-------------------------------------------------------------------|
| BK                    | 100 fuses packed into a cardboard carton                          |
| BK1                   | 1,000 fuses packed into a poly bag                                |
| TR2                   | 1,500 fuses packed into tape on a reel (19.05mm lead wire length) |

### Option Code

| Option Code | Description                                                       |
|-------------|-------------------------------------------------------------------|
| V           | Axial leads - copper tinned wire with nickel plated brass endcaps |

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