

# Subminiature Fuses

## SS-5 Series, Time-Delay



### Description

- Time-delay subminiature fuse with low breaking capacity
- Plastic cap and base, flammability UL 94V0
- Lead wire with tin-plated copper, diameter 0.6mm
- Protects against harmful overcurrents in primary and secondary applications
- Small rectangular-leaded design minimizes board space and eliminates need for additional mounting components (BK/PCS holder optional if field replacement is desirable)
- Designed to IEC 60127-3 Sheet 4 (400mA - 4A) and extension 5A, 6.3A

| Electrical Characteristics |                      |                      |                       |                    |                     |        |       |        |     |
|----------------------------|----------------------|----------------------|-----------------------|--------------------|---------------------|--------|-------|--------|-----|
| Rated Current              | 1.5 x I <sub>n</sub> | 2.1 x I <sub>n</sub> | 2.75 x I <sub>n</sub> | 4 x I <sub>n</sub> | 10 x I <sub>n</sub> |        |       |        |     |
|                            | min                  | max                  | min                   | max                | min                 | max    | min   | max    | max |
| 400mA-6.3A                 | 1hr                  | 2 min                | 400 mS                | 10 Sec.            | 150 mS              | 3 Sec. | 20 mS | 150 mS |     |

### Agency Information

- cURus: File E19180, Guide JDYX2/JDYX8
- VDE: File 40015513
- SEMKO: File 807650, 808892
- CQC: File CQC08012025533
- PSE: File JET1641-31007-1001, JET1641-31007-1002
- EK-MARK: File SU05011-8001, SU05011-8002, SU05011-8003

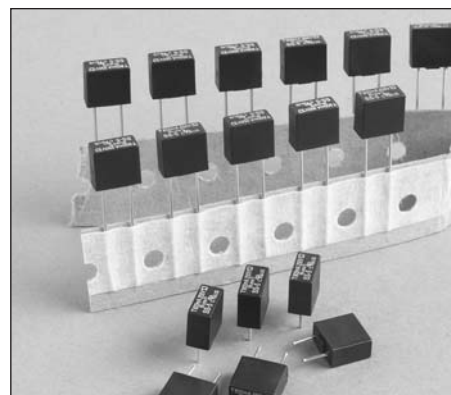
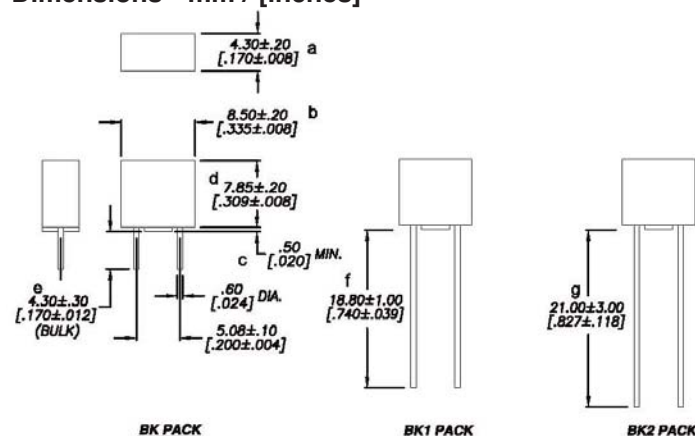
### Specifications

- Solderability: EIA-186-9E Method 9
- High frequency vibration: MIL-STD-202F, Method 201A
- Operating temperature: -40°C to +125°C
- Soldering heat resistance: 260°C, 10 sec. max (IEC 60068-2-20)

### Ordering

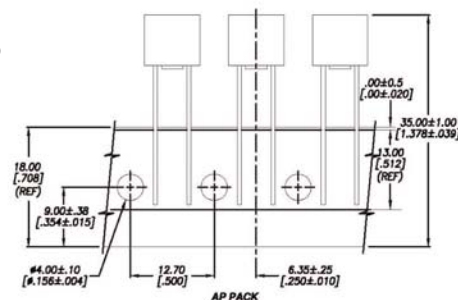
- Specify product and packaging code (i.e., SS-5-1A-AP)

### Dimensions - mm / [inches]

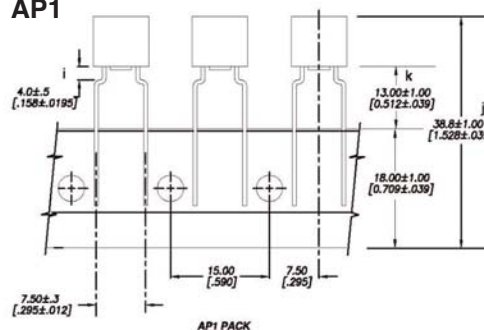


### Packaging - mm / [inches]

#### AP



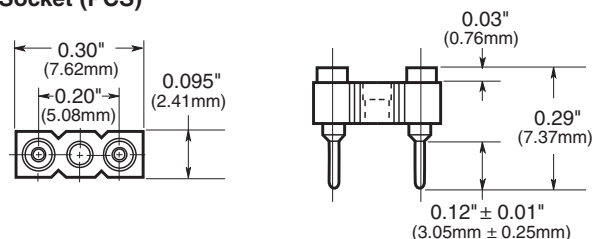
#### AP1



### Mounting Socket (RoHS compliant)

- Available as option. Specify catalog number BK/PCS (In bulk 100 per bag)

### Socket (PCS)



| Specifications |                      |                                                     |                                    |                                   |                                            |                  |       |       |     |         |     |
|----------------|----------------------|-----------------------------------------------------|------------------------------------|-----------------------------------|--------------------------------------------|------------------|-------|-------|-----|---------|-----|
| Catalog Number | Voltage Rating (Vac) | Interrupting Rating (amps) @ Rated Voltage (50Hz)** | Typical DC Cold Resistance (mΩ)*** | Typical Melting I <sup>2</sup> t† | Typical Voltage Drop@1I <sub>N</sub> (mV)‡ | Agency Approvals |       |       |     |         |     |
|                |                      |                                                     |                                    |                                   |                                            | VDE              | SEMKO | cRUus | CQC | EK-MARK | PSE |
| SS-5-400mA     | 250                  | 35                                                  | 330                                | 1.67                              | 147                                        | X                |       | X     | X   | X       |     |
| SS-5-500mA     | 250                  | 35                                                  | 257.5                              | 1.79                              | 151.5                                      | X                | X     | X     | X   | X       |     |
| SS-5-630mA     | 250                  | 35                                                  | 140                                | 1.51                              | 100.5                                      | X                | X     | X     | X   | X       |     |
| SS-5-800mA     | 250                  | 35                                                  | 118                                | 4.21                              | 110.5                                      | X                | X     | X     | X   | X       |     |
| SS-5-1A        | 250                  | 35                                                  | 80.75                              | 7.4                               | 94.5                                       | X                | X     | X     | X   | X       | X   |
| SS-5-1.25A     | 250                  | 35                                                  | 624                                | 12.75                             | 93.5                                       | X                | X     | X     | X   | X       | X   |
| SS-5-1.6A      | 250                  | 35                                                  | 41                                 | 23                                | 71.5                                       | X                | X     | X     | X   | X       | X   |
| SS-5-2A        | 250                  | 35                                                  | 31.15                              | 29.8                              | 75                                         | X                | X     | X     | X   | X       | X   |
| SS-5-2.5A      | 250                  | 35                                                  | 24.30                              | 40.3                              | 74.5                                       | X                | X     | X     | X   | X       | X   |
| SS-5-3.15A     | 250                  | 35                                                  | 16.75                              | 67                                | 62.5                                       | X                | X     | X     | X   | X       | X   |
| SS-5-4A        | 250                  | 40                                                  | 12.75                              | 87                                | 65.4                                       | X                | X     | X     | X   | X       | X   |
| *SS-5-5A       | 250                  | 50                                                  | 7.35                               | 120                               | 43                                         | X                | X     | X     | X   | X       | X   |
| *SS-5-6.3A     | 250                  | 63                                                  | 7.40                               | 176                               | 59                                         | X                | X     | X     | X   | X       | X   |

\*Conducting path min. 0.2mm²

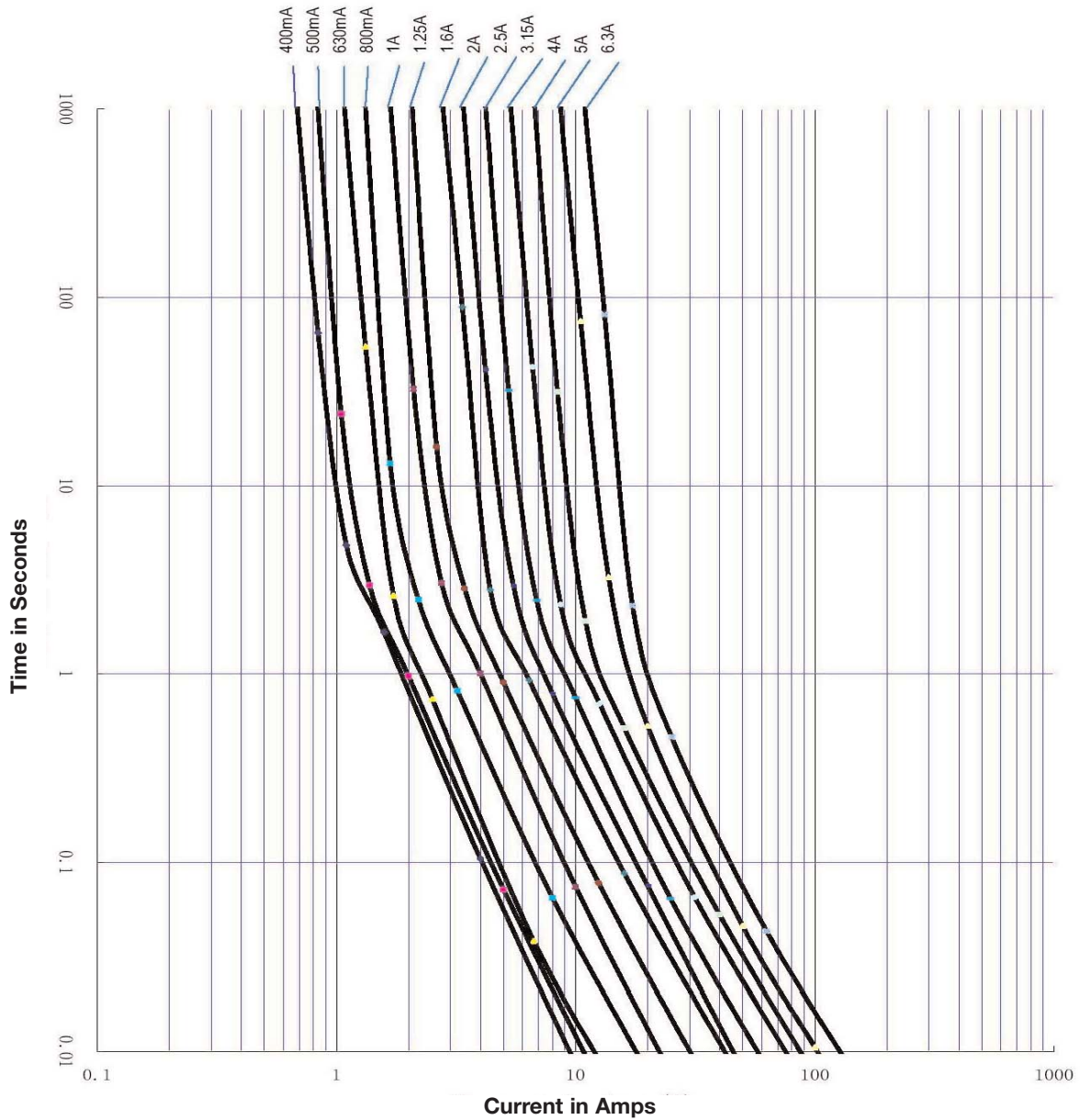
\*\*Interrupting ratings: 400mA-3.15A were measured at 35A, 95%-100% of PF on AC; 4A, 5A & 6.3A measured at 10x Rated Current, 95%-100% of PF on AC.

\*\*\*Typical cold resistance measured at <10% of rated current.

†I<sup>2</sup>t value is measured at 10I<sub>N</sub> DC.

‡ Typical voltage drop measured at 20°C ambient temperature at rated current.

## Time-Current Curve



| Packaging Code   |                                               |
|------------------|-----------------------------------------------|
| Packaging Suffix | Description                                   |
| -BK              | 200 fuses in polybag, Lead L = $4.3 \pm 0.3$  |
| -BK1             | 200 fuses in polybag, Lead L = $18.8 \pm 1.0$ |
| -BK2             | 200 fuses in polybag, Lead L = $21 \pm 3.0$   |
| -AP              | 1000 fuses Ammo Pack, Pitch = 12.7            |
| -AP1             | 1000 fuses Ammo Pack, Pitch = 15              |

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