

## 阅读申明

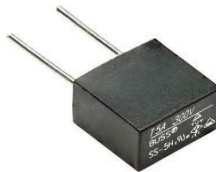
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# SS-5H

## 300V Subminiature, radial leaded, time-delay fuses



### Product description

- Radial leaded, time delay with high breaking capacity
- Designed to IEC60127-3
- Plastic cap and base, flammability UL 94V0
- Protects against harmful overcurrents in primary and secondary applications
- Small rectangular-leaded design utilizes less board space
- High frequency vibration: MIL-STD-202F, Method 201A
- Halogen free, lead free, RoHS compliant

### Applications

Primary and secondary circuit protection:

- Power supplies
- Notebooks and laptops
- Appliances and white goods
- Lighting ballasts
- Power adapters
- Set top boxes
- LED/LCD televisions and displays
- Air conditioners
- Battery chargers

### Agency information

- UL Recognition: File E19180, Guide JDYX2/JDYX8
- VDE: 40031800
- TUV: J50190080
- CQC: 11012056980
- PSE: JET 1641-31007-1006 (1- 5A); JET 1641-31007-1007 (6.3A)
- KC: SU05011-11001 (1~2.5A); SU05011-11002 (3.15~6.3A)

### Ordering

- Specify part number and packaging suffix as shown

| Part number | Packaging suffix |
|-------------|------------------|
| SS-5H-1A    | -AP              |

### Packaging suffixes

#### 250V Version

- -AP (1000 parts Ammo pack, Pitch =12.7mm)
- -BK (200 parts in a polybag, Lead L=4.3 ±0.3mm)
- -BK2 (200 parts in a polybag, Lead L=21 ±3.0mm)

#### 300V Version

- -APH (1000 parts Ammo pack, Pitch =12.7mm)
- -BKH (200 parts in a polybag, Lead L=4.3 ±0.3mm)
- -BK2H (200 parts in a polybag, Lead L=21 ±3.0mm)



Powering Business Worldwide

Electrical characteristics

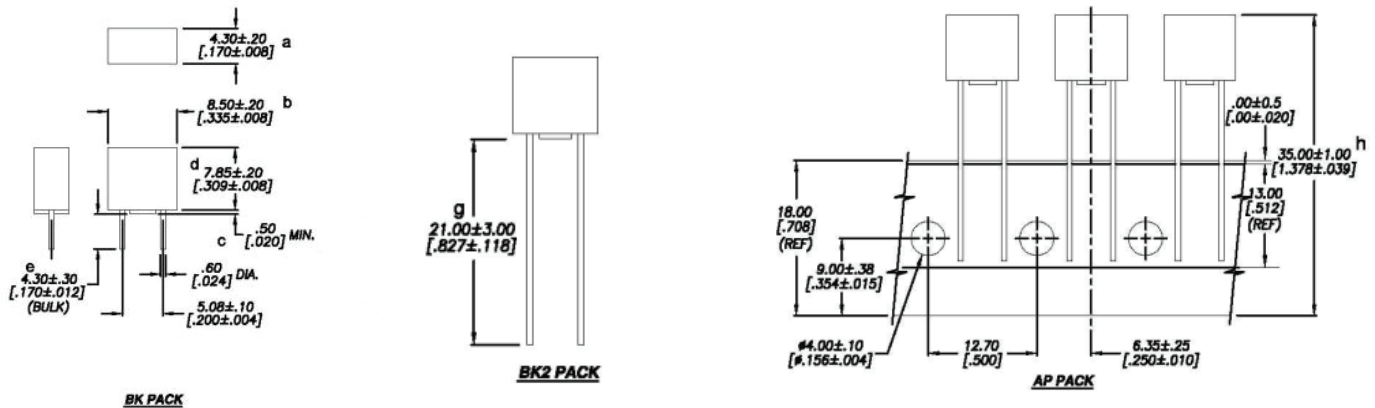
| $I_n$     | $1.5I_n$<br>min<br>minute | $2.1I_n$<br>max<br>minute | $2.75I_n$<br>min ms | $2.75I_n$<br>max s | $4I_n$<br>min<br>ms | $4I_n$<br>max<br>s | $10I_n$<br>min<br>ms | $10I_n$<br>max<br>ms |
|-----------|---------------------------|---------------------------|---------------------|--------------------|---------------------|--------------------|----------------------|----------------------|
| 1A - 6.3A | 60                        | 2                         | 400                 | 10                 | 150                 | 3                  | 20                   | 150                  |

Product specifications

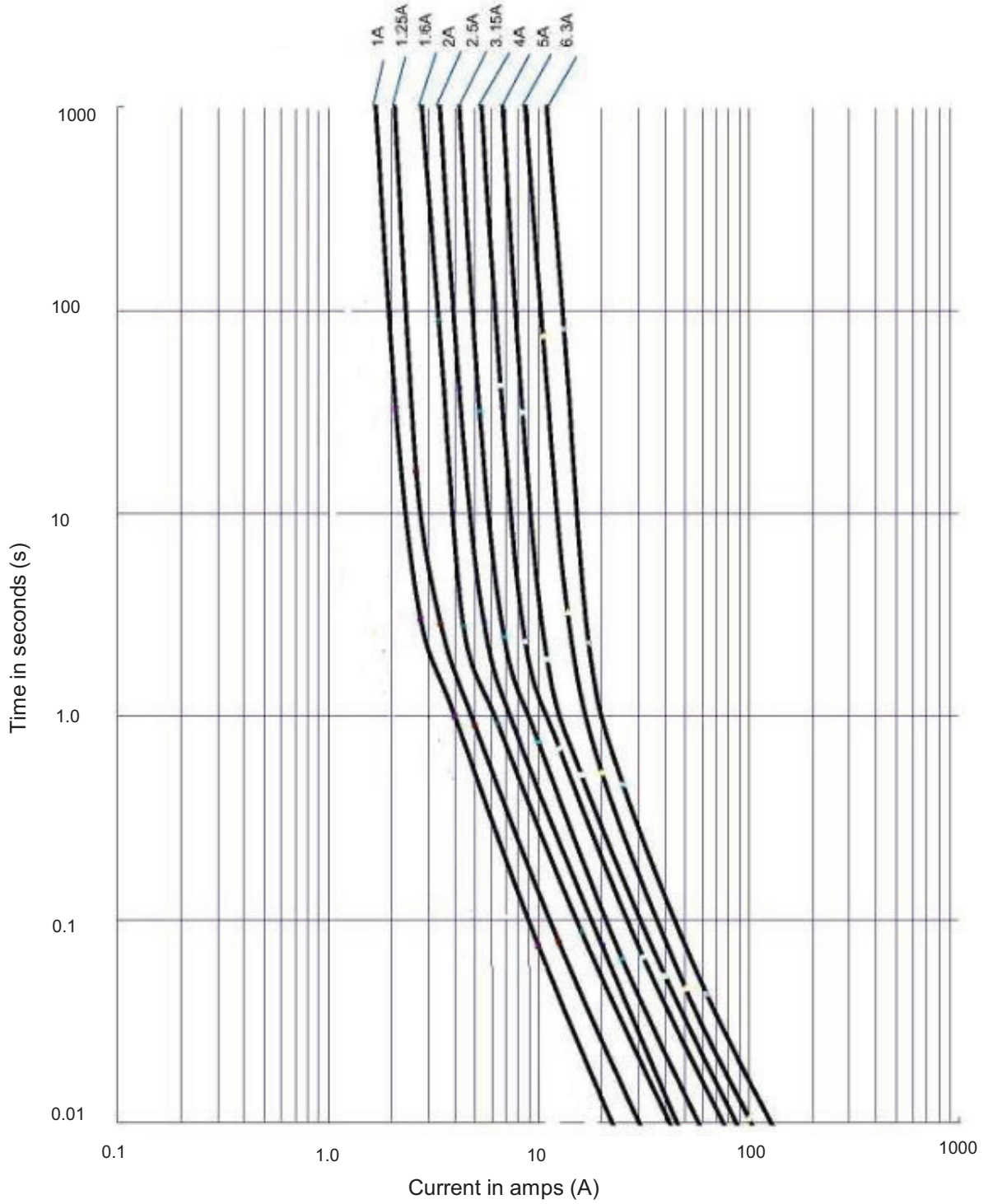
| Part number | Voltage rating <sup>1</sup> AC | Interrupting rating at rated voltage (50Hz) AC (amps) | Typical DC cold resistance <sup>2</sup> (mΩ) | Typical melting <sup>3</sup> I <sup>2</sup> t (A2s) | Typical voltage drop <sup>4</sup> (mV) | VDE <sup>1</sup> | TUV <sup>1</sup> | CURUs <sup>1</sup> | CQC <sup>1</sup> | KC <sup>1</sup> | PSE+JET <sup>1</sup> |
|-------------|--------------------------------|---|--|---|--|------------------|------------------|--------------------|------------------|-----------------|----------------------|
| SS-5H-1A    | 300                            | 100   | 78   | 7.4   | 94.5                                   | X                | X                | X                  | X                | X               | X                    |
| SS-5H-1.25A | 300                            | 100   | 57   | 12.8  | 87                                     | X                | X                | X                  | X                | X               | X                    |
| SS-5H-1.6A  | 300                            | 100   | 43   | 23  | 79                                     | X                | X                | X                  | X                | X               | X                    |
| SS-5H-2A    | 300                            | 100   | 31.2   | 29.8  | 75                                     | X                | X                | X                  | X                | X               | X                    |
| SS-5H-2.5A  | 300                            | 100   | 23.0   | 40.3  | 73.5                                   | X                | X                | X                  | X                | X               | X                    |
| SS-5H-3.15A | 300                            | 100   | 17.5   | 67  | 62.5                                   | X                | X                | X                  | X                | X               | X                    |
| SS-5H-4A    | 300                            | 100   | 12   | 87  | 60.5                                   | X                | X                | X                  | X                | X               | X                    |
| SS-5H-5A    | 300                            | 100   | 7.35   | 120   | 43                                     | X                | X                | X                  | X                | X               | X                    |
| SS-5H-6.3A  | 300                            | 100   | 7.4  | 176   | 59                                     | X                | X                | X                  | X                | X               | X                    |

- CQC and KC-Mark voltage rating only 250Vac. VDE, TUV, cURus and PSE voltage ratings given at both 250Vac and 300Vac
- 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 (voltage drop was measured at 20°C ambient temperature at rated current)

Dimensions and packaging (mm)

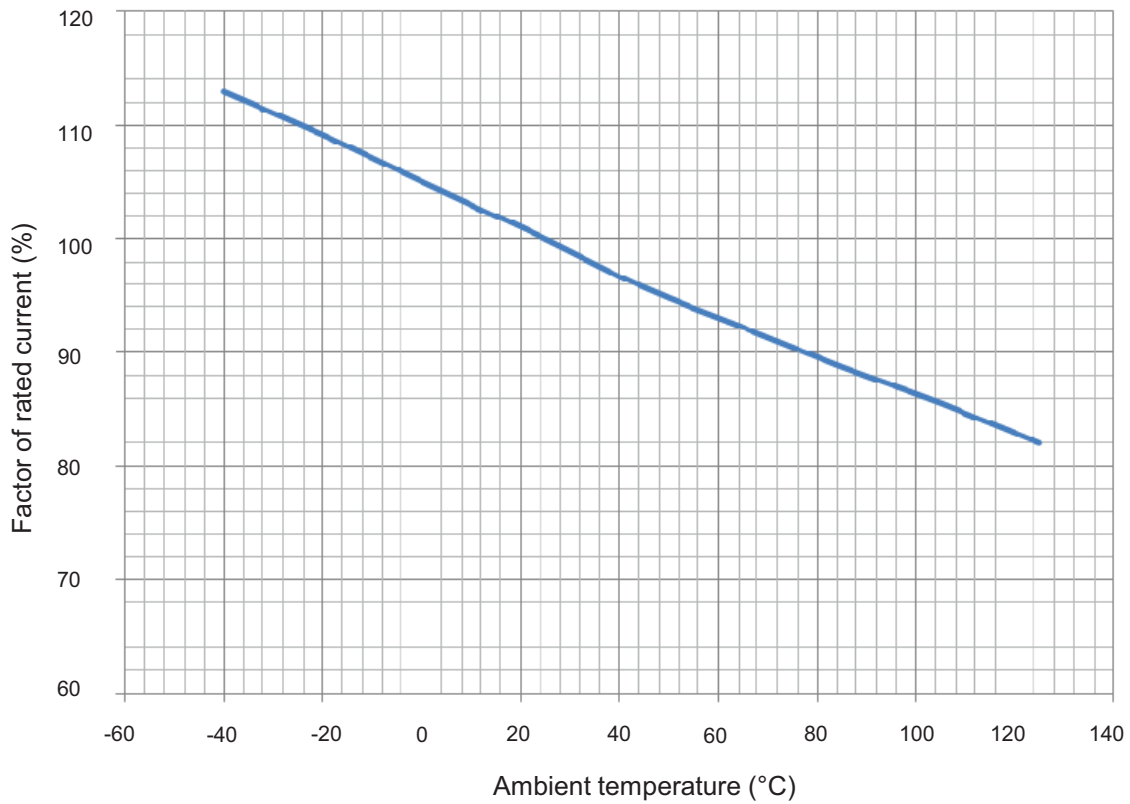


Time vs. current curve



### Temperature derating curve

Normal Operating Temperature: 25°C±2°C



### Environmental data

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Operating temperature -40°C to 125°C w ith proper correction factor applied

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Storage temperature -10°C to 40°C

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Solderability-EIA-186-9E Method 9

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High Frequency Vibration Test-Withstands 10-55Hz per MIL-STD-202F, Method 201A

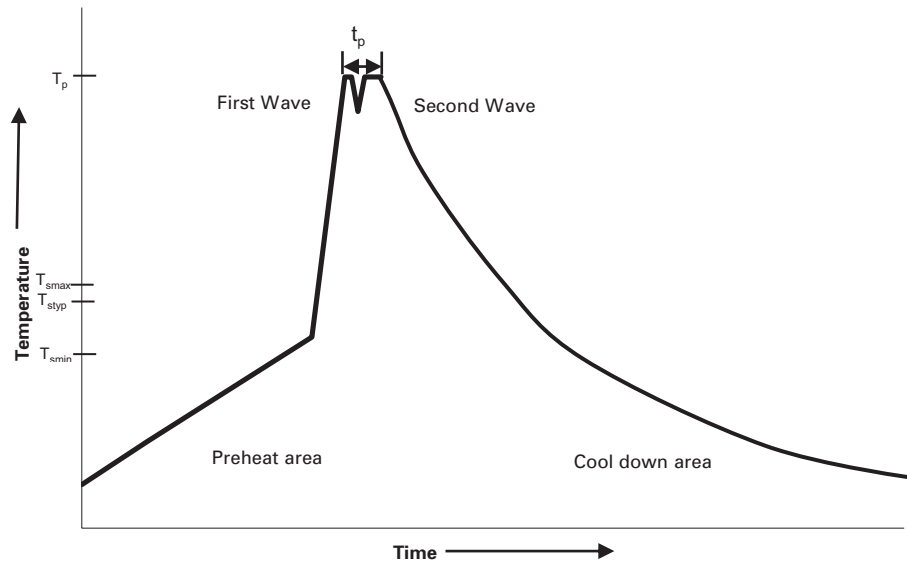
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Endurance Test-IEC60127-3/4

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### Wave solder profile

Reflow soldering not recommended



### Reference EN 61760-1:2006

| Profile Feature                     | Standard SnPb Solder                          | Lead (Pb) Free Solder                     |
|-------------------------------------|---|---|
| Preheat                             | • Temperature min. ( $T_{smin}$ )             | 100°C                                     |
|                                     | • Temperature typ. ( $T_{styp}$ )             | 120°C                                     |
|                                     | • Temperature max. ( $T_{smax}$ )             | 130°C                                     |
|                                     | • Time ( $T_{smin}$ to $T_{smax}$ ) ( $t_s$ ) | 70 seconds                                |
| $\Delta$ preheat to max Temperature | 150°C max.                                    | 150°C max.                                |
| Peak temperature ( $T_p$ )*         | 235°C – 260°C                                 | 250°C – 260°C                             |
| Time at peak temperature ( $t_p$ )  | 10 seconds max<br>5 seconds max each wave     | 10 seconds max<br>5 seconds max each wave |
| Ramp-down rate                      | ~ 2 K/s min<br>~3.5 K/s typ<br>~5 K/s max     | ~ 2 K/s min<br>~3.5 K/s typ<br>~5 K/s max |
| Time 25°C to 25°C                   | 4 minutes                                     | 4 minutes                                 |

### Manual solder

350°C, 4-5 seconds (by soldering iron), generally manual hand soldering is not recommended.

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**Eaton**  
**Electronics Division**  
1000 Eaton Boulevard  
Cleveland, OH 44122  
United States  
www.eaton.com/elx

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