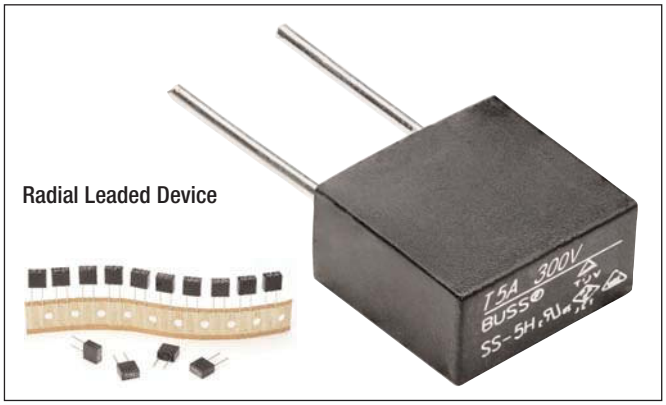
COOPER Bussmann

# 300V Subminiature, Radial Leaded, Time-Delay Fuses
## SS-5H Series




| Electrical Characteristics | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Rated Current | 1.5 $xI_n$ min | 2.1 $xI_n$ max | 2.75 $xI_n$ min | 2.75 $xI_n$ max | 4 $xI_n$ min | 4 $xI_n$ max | 10 $xI_n$ min | 10 $xI_n$ max |
| 1A-6.3A | 1 hr | 2 min | 400 mS | 10 Sec. | 150 mS | 3 Sec. | 20 mS | 150 mS |

### Description

Radial leaded, time delay subminiature fuse with high breaking capacity, designed to IEC 60127-3, Sheet 4. SS-5H series provides protection up to 300Vac with an interrupting rating of 100A.

### Features

- Plastic cap and base, flammability UL 94V0 for additional protection
- Protects against harmful overcurrents in primary and secondary applications
- Small rectangular-leaded design minimizes PCB space
- Solderability to save cost for additional mounting components
- High frequency vibration: MIL-STD-202F, Method 201A
- Halogen-free
- RoHS compliant
- Lead-free

### Applications

- Power supplies
- Notebooks
- White goods
- Lighting ballasts
- Power adapters
- Printers
- Set top boxes
- Battery chargers
- TVs / Displays
- Air conditioners

### Agency Information

- cURus approval: Guide JDYX2, File E 19180 and Guide JDYX8, File E19180
- VDE approval: Certificate No: 40031800
- TUV approval: Certificate No: J 50190080
- CQC approval: Certificate No: CQC11012056980
- PSE approval: Certificate No: JET 1641-31007-1006 (1-5A); JET 1641-31007-1007 (6.3A)
- KC-Mark approval: Certificate No: SU05011-11001 (1~2.5A); SU05011-11002 (3.15~6.3A)

### Part Number System

SS-5H -1A –APH

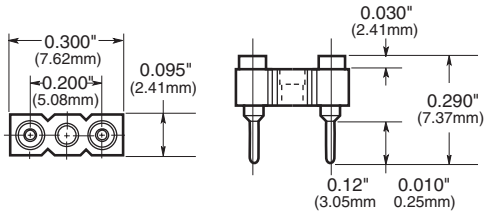
- SS-5H: Series Number
- -1A: Amp Rating
- –APH: Packaging Code Suffix and Voltage Rating

### Ordering

- Specify product and packaging code (i.e., SS-5H-1A-AP)
- Packaging Codes: Ammo Pack (1000 fuses); -AP=250V, -APH=300V
  Bulk Polybag (200 fuses); -BK=250V, -BKH=300V

### PCS Mounting Socket (RoHS compliant)

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



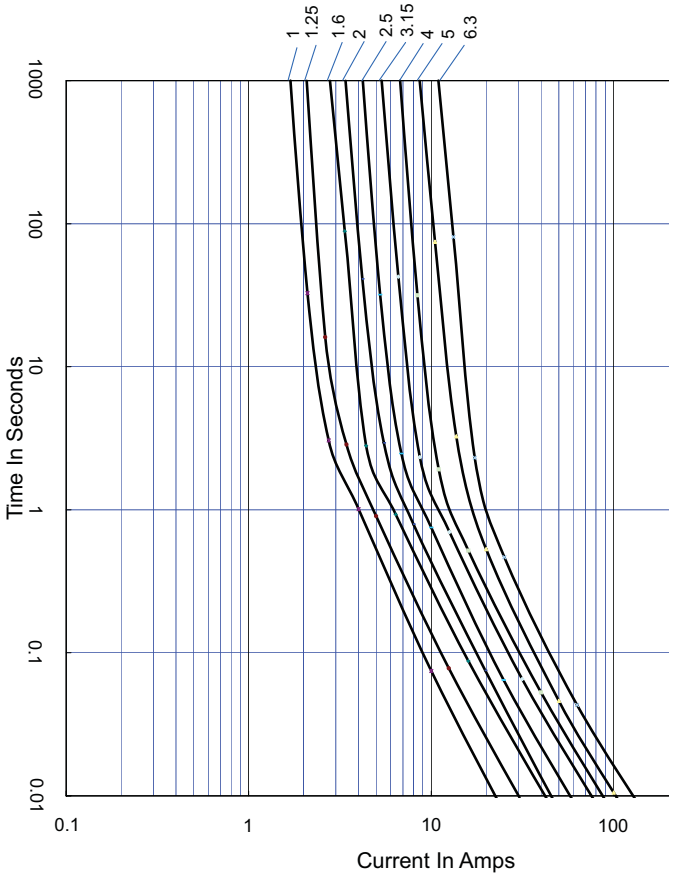

### Specifications

| Catalog Number | Voltage Rating (Vac)[1] | Interrupting Rating (amps) @ Rated Voltage (50Hz) | Typical DC Cold Resistance (mΩ)† | Typical Melt $I^2t$* | Typical Voltage Drop@1$I_n$ (mV)‡ | Agency Information | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | VDE[1] | TUV[1] | cURus[1] | CQC[1] | KC-Mark[1] | PSE[1] |
| SS-5H-1A | 300 | 100 | 78 | 7.4 | 94.5 | X[2] | X | X | X | X | X |
| SS-5H-1.25A | 300 | 100 | 57 | 12.75 | 93.5 | X[2] | X | X | X | X | X |
| SS-5H-1.6A | 300 | 100 | 43 | 23 | 71.5 | X | X | X | X | X | X |
| SS-5H-2A | 300 | 100 | 31.15 | 29.8 | 75 | X[2] | X | X | X | X | X |
| SS-5H-2.5A | 300 | 100 | 23 | 40.3 | 74.5 | X[2] | 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 | 65.4 | 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 | 7.40 | 176 | 59 | X | X | X | X | X | X |

* $I^2t$ Value is measured at 10$I_n$ DC.
† Typical Cold Resistance (Measured at <10% of rated current).
‡ Typical Voltage Drop (Voltage drop was measured at 20°C ambient temperature at rated current).

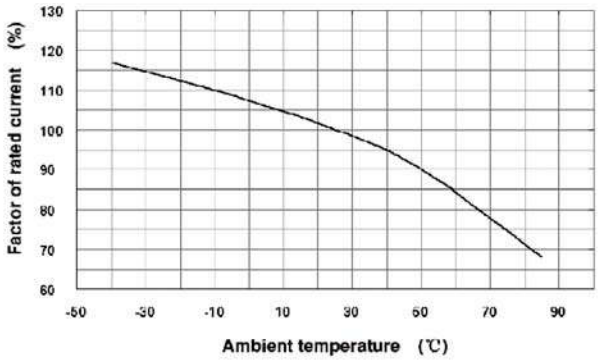
1. CQC and KC-Mark Voltage rating only 250Vac. VDE, TUV, cURus and PSE voltage ratings given at both 250Vac and 300Vac.
2. Pending VDE voltage ratings: 250Vac (1.25, 2.5A), 300Vac (1, 1.25, 2, 2.5A)

## Time-Current Curves



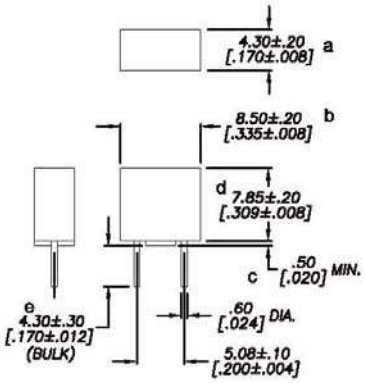

## Temperature Derating Curve

- Ambient Operating Temperature: 25°C±2°C
- Operating Temperature Range:-40°C to 85°C with proper correction factor applied
- Storage Temperature: -10°C to 40°C

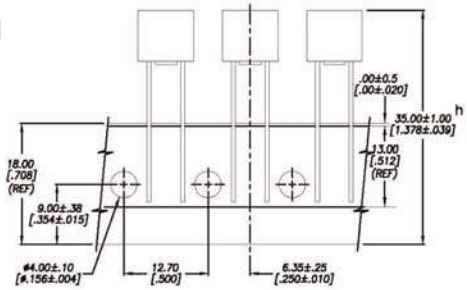



## Dimensions - mm (in)

### BK/BKH




### AP/APH



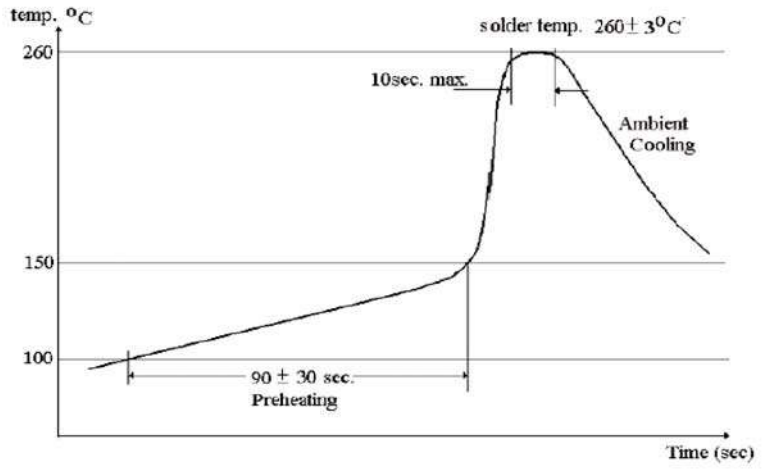
## Product Characteristics

| | |
|---|---|
| Operating Temperature | -40°C to 85°C with proper correction factor applied |
| Storage Temperature | -10°C to 40°C |
| Solderability | EIA-186-9E Method 9 |
| High Frequency Vibration Test | Test-Withstands 10-55Hz per MIL-STD-202F, Method 201A |
| Endurance Test | IEC60127-3/4<br>1.0$I_n$ carrying ON for 1 Hour, OFF for 15 Minutes, 100 Cycles, followed by 1.5$I_n$ for 1 Hour, after that, voltage drop at 1$I_n$ is changing not more than 10%. |

## Wave Soldering Parameters

- Reservoir Temperature: 260°C
- Time: Maximum 10 Seconds

## Solder Reflow Profile




## Recommended Hand-Solder Parameters

- Solder Iron Temperature: 350°C±5°C
- Heating Time: 5 seconds maximum

Note: These devices are not recommended for IR or Convection Reflow process.

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