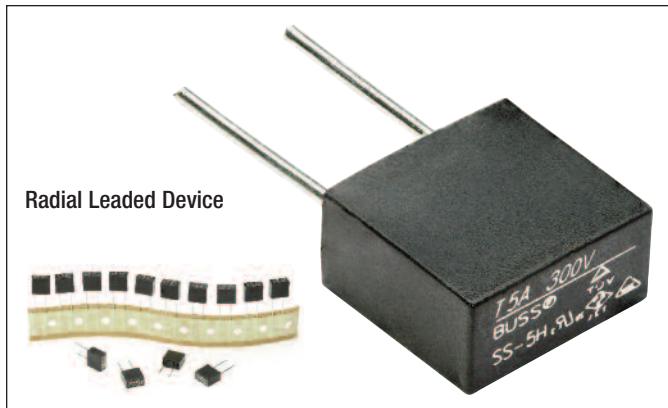


## 300V Subminiature, Radial Leaded, Time-Delay Fuses SS-5H Series



| Electrical Characteristics |                         |                         |                          |         |                       |        |                        |        |
|----------------------------|-------------------------|-------------------------|--------------------------|---------|-----------------------|--------|------------------------|--------|
| Rated Current              | 1.5 xI <sub>n</sub> min | 2.1 xI <sub>n</sub> max | 2.75 xI <sub>n</sub> min | max     | 4 xI <sub>n</sub> min | max    | 10 xI <sub>n</sub> min | 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

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

### 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

## Specifications

| Specifications |                                   |                                                   |                                              |                                |                                                        |                    |                  |                    |                  |                      |                  |
|----------------|-----------------------------------|---------------------------------------------------|----------------------------------------------|--------------------------------|--------------------------------------------------------|--------------------|------------------|--------------------|------------------|----------------------|------------------|
| Catalog Number | Voltage Rating (Vac) <sup>1</sup> | Interrupting Rating (amps) @ Rated Voltage (50Hz) | Typical DC Cold Resistance (mΩ) <sup>†</sup> | Typical Melt I <sup>‡</sup> t* | Typical Voltage Drop@1I <sub>n</sub> (mV) <sup>‡</sup> | Agency Information |                  |                    |                  |                      |                  |
|                |                                   |                                                   |                                              |                                |                                                        | VDE <sup>1</sup>   | TUV <sup>1</sup> | cURus <sup>1</sup> | CQC <sup>1</sup> | KC-Mark <sup>1</sup> | PSE <sup>1</sup> |
| SS-5H-1A       | 300                               | 100                                               | 78                                           | 7.4                            | 94.5                                                   | X <sup>2</sup>     | X                | X                  | X                | X                    | X                |
| SS-5H-1.25A    | 300                               | 100                                               | 57                                           | 12.75                          | 93.5                                                   | X <sup>2</sup>     | 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 <sup>2</sup>     | X                | X                  | X                | X                    | X                |
| SS-5H-2.5A     | 300                               | 100                                               | 23                                           | 40.3                           | 74.5                                                   | X <sup>2</sup>     | 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                |

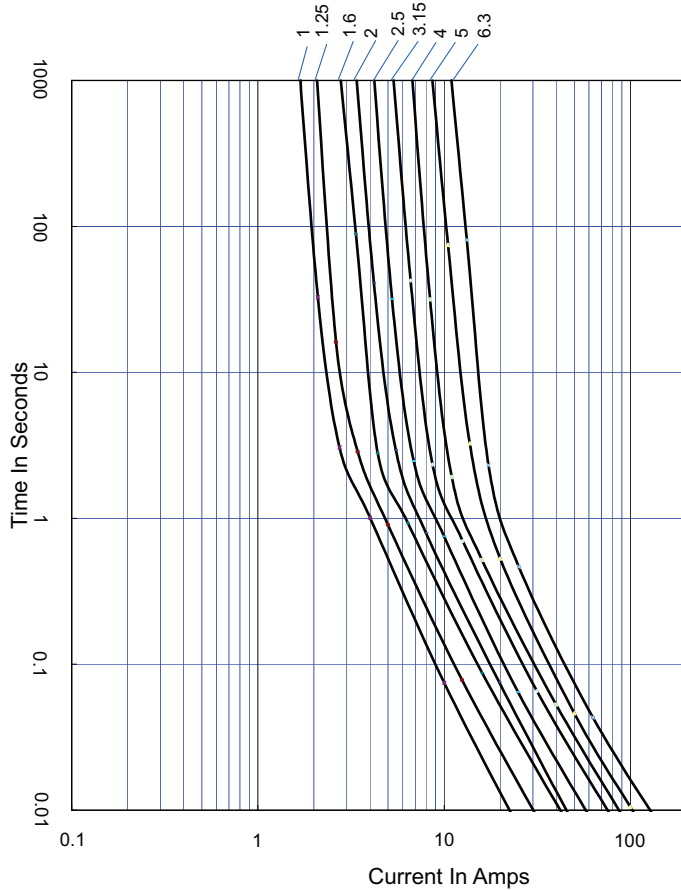
\* I<sup>‡</sup>t Value is measured at 10I<sub>n</sub> DC.

<sup>†</sup> Typical Cold Resistance (Measured at <10% of rated current).

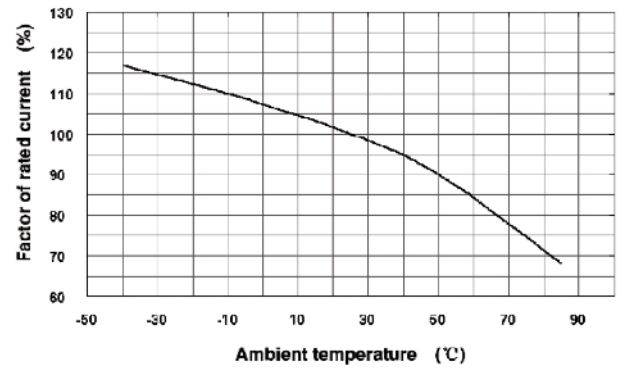
<sup>‡</sup> Typical Voltage Drop (Voltage drop was measured at 20°C ambient temperature at rated current).

1. CQC and KC-Mark Voltage rating only 250Vac. VDE, TUV, cURus and PSE voltage ratings given at both 250Vac and 300Vac.

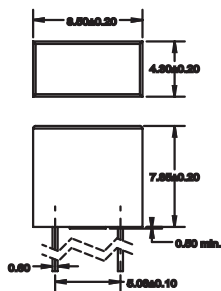
2. Pending VDE voltage ratings: 250Vac (1.25, 2.5A), 300Vac (1, 1.25, 2, 2.5A)

**Time-Current Curves****Temperature Derating Curve**

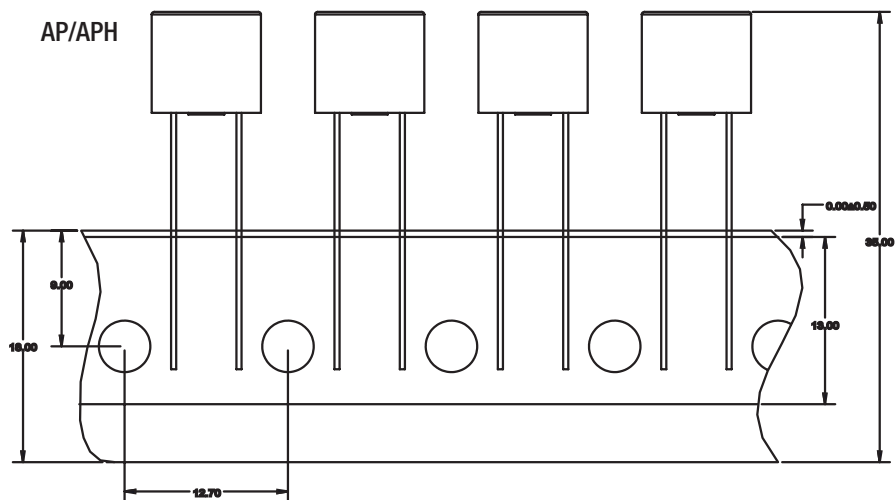
- Ambient Operating Temperature:  $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$
- Operating Temperature Range:  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$  with proper correction factor applied
- Storage Temperature:  $-10^{\circ}\text{C}$  to  $40^{\circ}\text{C}$

**Dimensions - mm (in)**

BK/BKH



AP/APH



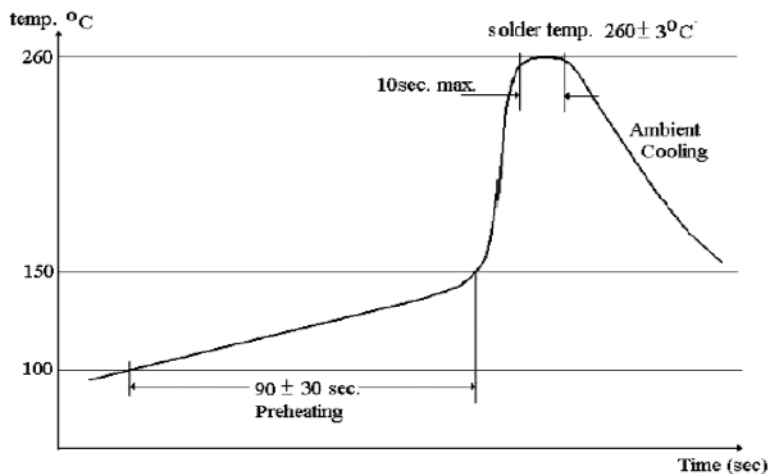
## Product Characteristics

|                               |                                                                                                                                                                                                                |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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>1.0I <sub>n</sub> carrying ON for 1 Hour, OFF for 15 Minutes, 100 Cycles, followed by 1.5I <sub>n</sub> for 1 Hour, after that, voltage drop at 1I <sub>n</sub> 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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