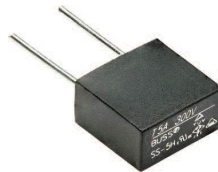


# SS-5H

## 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

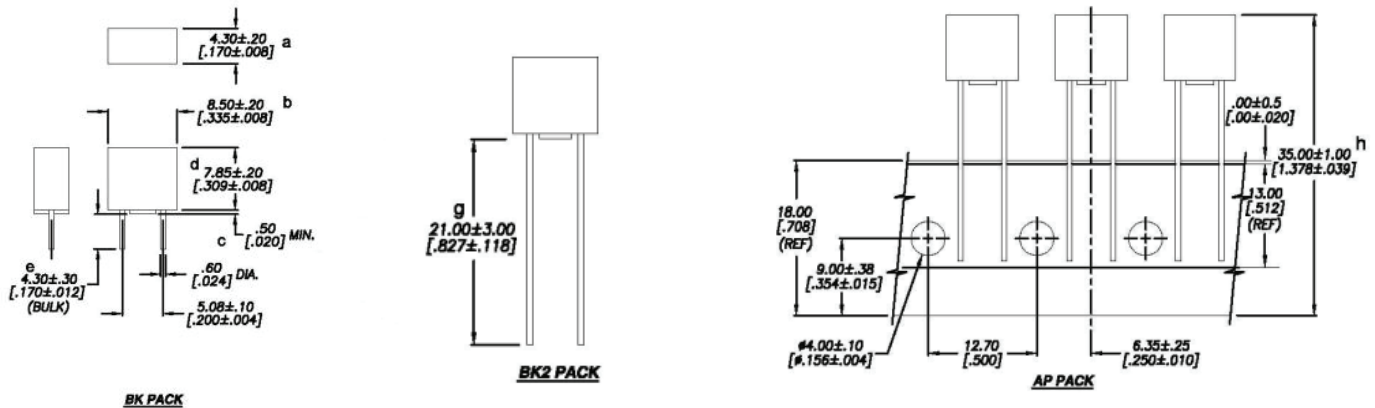
$I_n$	$1.5I_n$ min minute	$2.1I_n$ max minute	$2.75I_n$ min ms	$2.75I_n$ max s	$4I_n$ min ms	$4I_n$ max s	$10I_n$ min ms	$10I_n$ max ms
1A - 6.3A	60	2	400	10	150	3	20	150

Product specifications

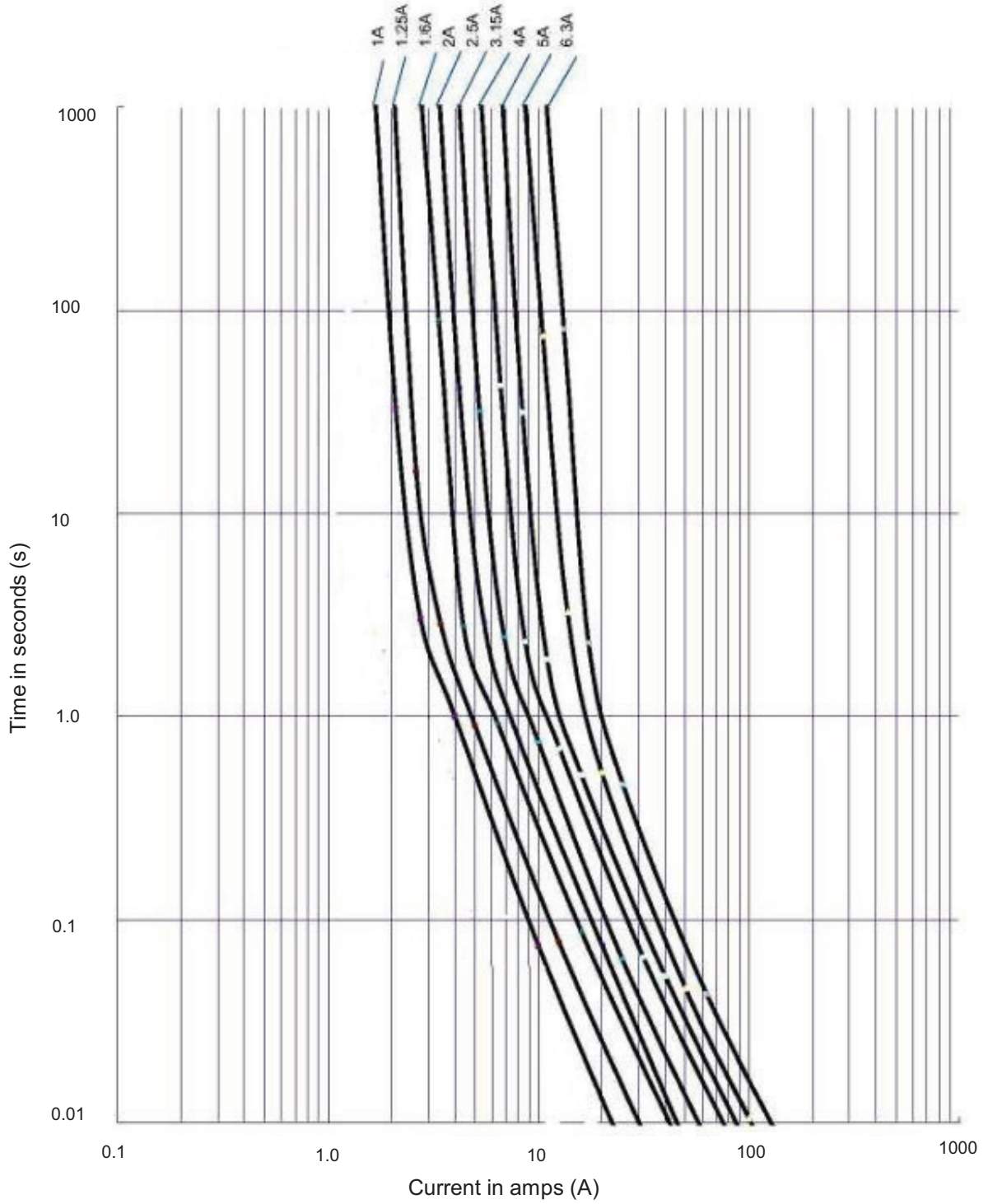
Part number	Voltage rating <sup>1</sup> AC	Interrupting rating at rated voltage (50Hz) AC (amps)	Typical DC cold resistance <sup>2</sup> (mΩ)	Typical melting <sup>3</sup> I <sup>2</sup> t (A2s)	Typical voltage drop <sup>4</sup> (mV)	VDE <sup>1</sup>	TUV <sup>1</sup>	CURUs <sup>1</sup>	CQC <sup>1</sup>	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)

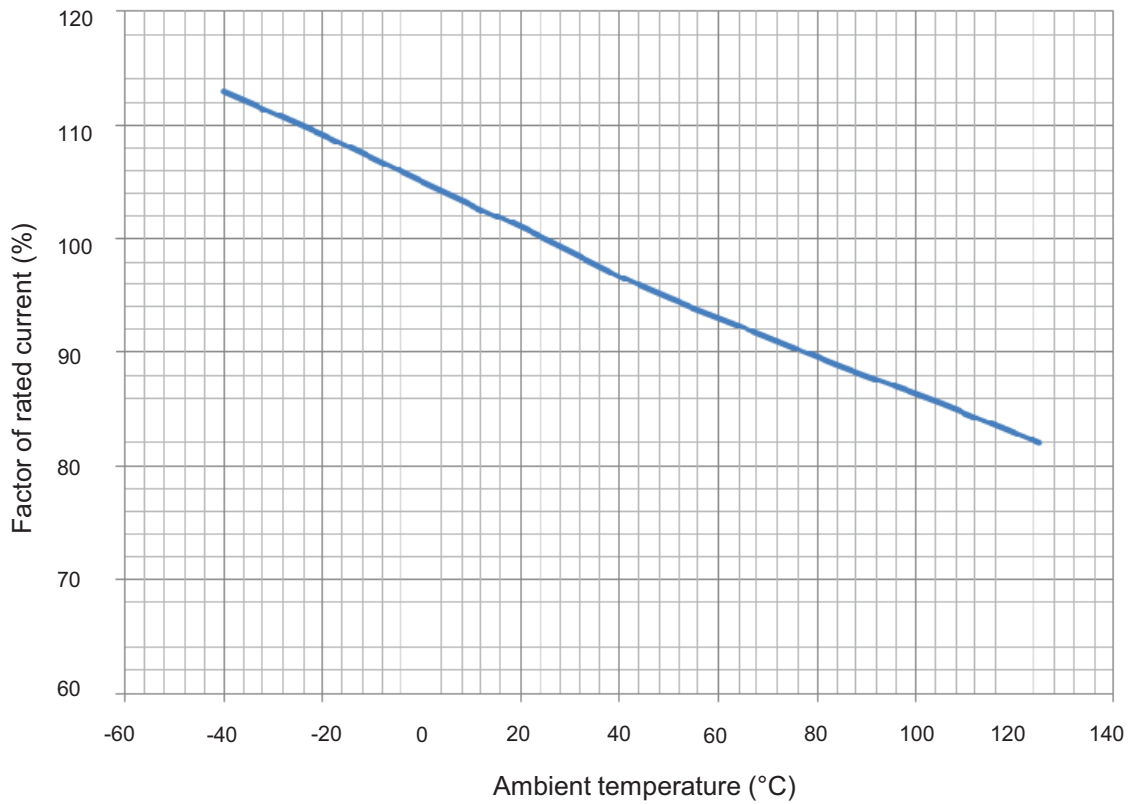


Time vs. current curve



### 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

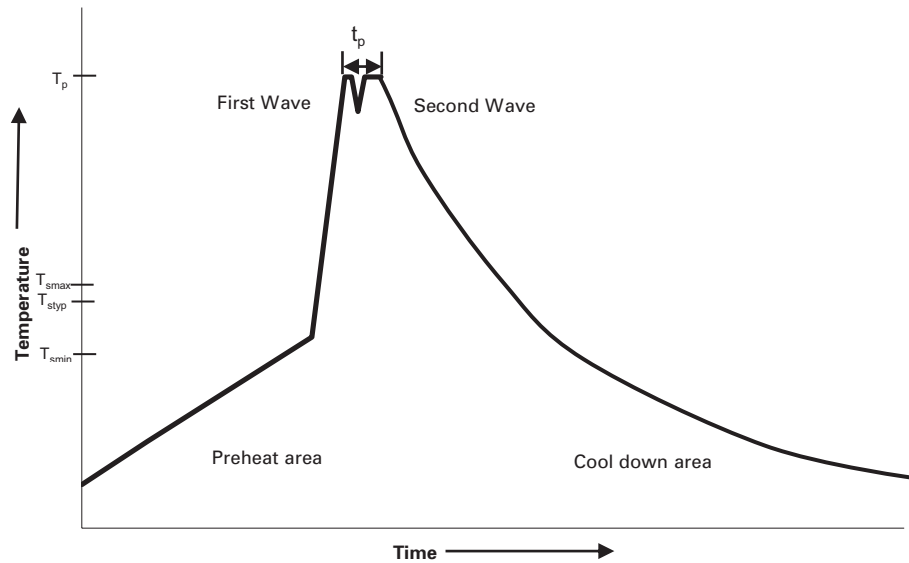
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Endurance Test-IEC60127-3/4

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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 5 seconds max each wave	10 seconds max 5 seconds max each wave
Ramp-down rate	~ 2 K/s min ~3.5 K/s typ ~5 K/s max	~ 2 K/s min ~3.5 K/s typ ~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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