Effective October 2015 Supersedes September 2014

# **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:

BUSSMANN SERIES

- 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 SS-5H-1A Packaging suffix -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



#### **Electrical characteristics**

I <u>.</u>	1.51 min minute	2.11 max minute	2.751 min ms	2.751 max s	4l min ms	4I <sub>n</sub> max s	10l min ms	10l <sub>n</sub> 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> (m $\Omega$ )	Typical melting³ I²t (A2s)	Typical voltage drop⁴ (mV)	VDE <sup>1</sup>	TUV	<b>CURUs</b> <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	Х	Х	Х	Х	Х	Х
SS-5H-1.25A	300	100	57	12.8	87	Х	Х	Х	Х	Х	Х
SS-5H-1.6A	300	100	43	23	79	Х	Х	Х	Х	Х	Х
SS-5H-2A	300	100	31.2	29.8	75	Х	Х	Х	Х	Х	Х
SS-5H-2.5A	300	100	23.0	40.3	73.5	Х	Х	Х	Х	Х	Х
SS-5H-3.15A	300	100	17.5	67	62.5	Х	Х	Х	Х	Х	Х
SS-5H-4A	300	100	12	87	60.5	Х	Х	Х	Х	Х	Х
SS-5H-5A	300	100	7.35	120	43	Х	Х	Х	Х	Х	Х
SS-5H-6.3A	300	100	7.4	176	59	Х	Х	Х	Х	Х	Х

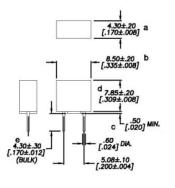
1. CQC and KC-Mark voltage rating only 250Vac. VDE, TUV, cURus and PSE voltage ratings given at both 250Vac and 300Vac

Typical cold resistance (measured at <10% of rated current)</li>

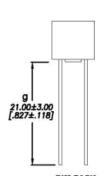
3. I<sup>2</sup>T value is measured at 10I<sub>0</sub> DC

4. Typical voltage drop (voltage drop was measured at 20°C ambient temperature at rated current)

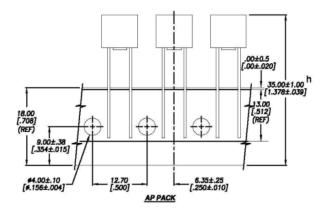
#### Dimensions and packaging (mm)



BK PACK

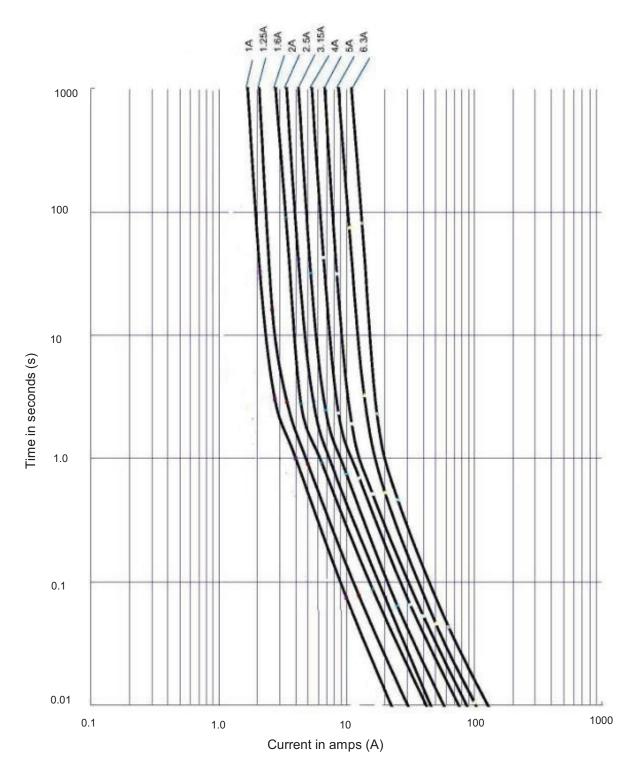


BK2 PACK



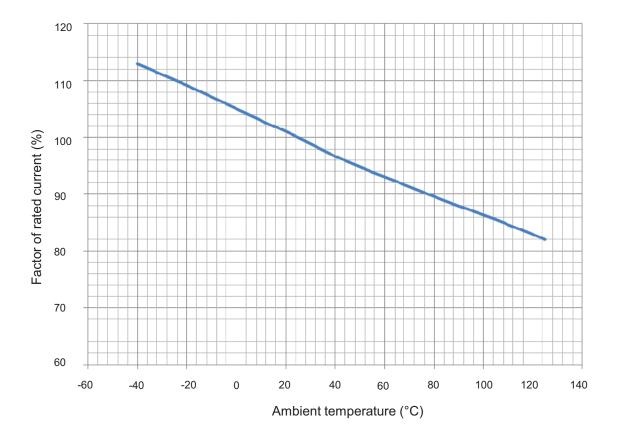
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#### Time vs. current curve



#### Temperature derating curve

Normal Operating Temperature: 25°C±2°C



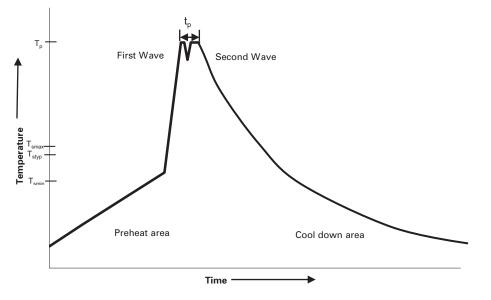
#### **Environmental data**

Operating temperature -40°C to 125°C w ith proper correction factor applied	
Storage temperature -10°C to 40°C	
Solderability-EIA-186-9E Method 9	
High Frequency Vibration Test-Withstands 10-55Hz per MIL-STD-202F, Method 201A	
Endurance Test-IEC60127-3/4	

### SS-5H 300V Subminiature, radial leaded, time-delay fuses

#### Wave solder profile

Reflow soldering not recommended



#### Reference EN 61760-1:2006

100°C	100°C		
	100°C		
120°C	120°C		
130°C	130°C		
70 seconds	70 seconds		
150°C max.	150°C max.		
235°C – 260°C	250°C – 260°C		
10 seconds max 5 seconds max each wave	10 seconds max 5 seconds max each wave		
~ 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		
4 minutes	4 minutes		
	70 seconds 150°C max. 235°C – 260°C 10 seconds max 5 seconds max each wave ~ 2 K/s min ~3.5 K/s typ ~5 K/s max		

#### Manual solder

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

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