BUSSMANN SERIES

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 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>	1.5I _n min minute	2.1I _n max minute	2.75I _n min ms	2.75l _n max s	4l min ms	4I _n max s	10l _n min ms	10l _n max ms
1A - 6.3A	60	2	400	10	150	3	20	150

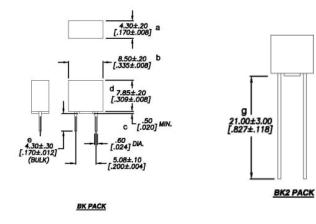
Product specifications

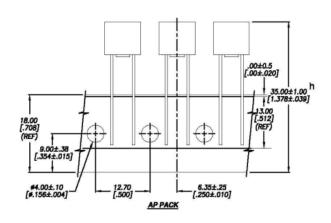
Part number	Voltage rating¹ AC	Interrupting rating at rated voltage (50Hz) AC (amps)	Typical DC cold resistance 2 (m Ω)	Typical melting ³ I ² t (A2s)	Typical voltage drop⁴ (mV)	VDE ¹	TUV ¹	CURUs ¹	CQC1	KC¹	PSE+ JET¹
SS-5H-1A	300	100	78	7.4	94.5	Χ	Χ	Χ	Χ	Χ	Χ
SS-5H-1.25A	300	100	57	12.8	87	Χ	Χ	Χ	Χ	Χ	Χ
SS-5H-1.6A	300	100	43	23	79	Χ	Χ	Χ	Χ	Χ	Х
SS-5H-2A	300	100	31.2	29.8	75	Χ	Χ	Χ	Χ	Χ	Х
SS-5H-2.5A	300	100	23.0	40.3	73.5	Χ	Χ	Χ	Χ	Χ	Х
SS-5H-3.15A	300	100	17.5	67	62.5	Χ	Χ	Χ	Χ	Χ	Х
SS-5H-4A	300	100	12	87	60.5	Χ	Χ	Χ	Χ	Χ	Х
SS-5H-5A	300	100	7.35	120	43	Χ	Χ	Χ	Χ	Χ	Χ
SS-5H-6.3A	300	100	7.4	176	59	Χ	Χ	Χ	Χ	Χ	Х

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

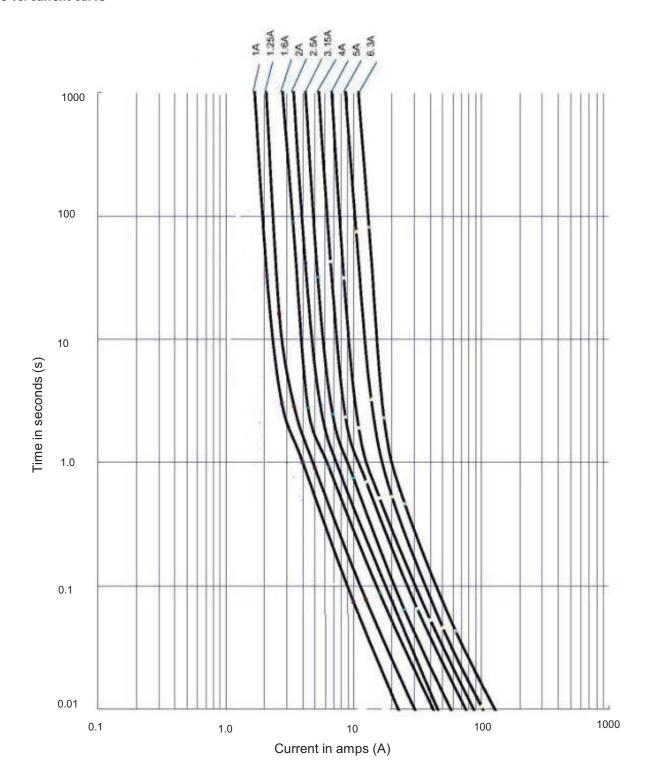
- 2. Typical cold resistance (measured at <10% of rated current)
- 3. I2T value is measured at 10I DC
- 4. Typical voltage drop (voltage drop was measured at 20°C ambient temperature at rated current)

Dimensions and packaging (mm)



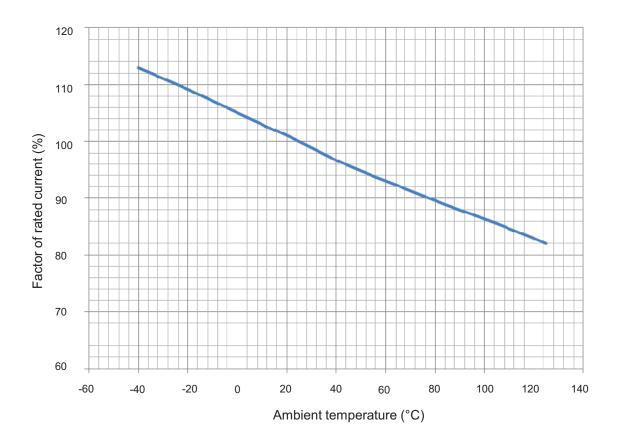


Time vs. current curve



Temperature derating curve

Normal Operating Temperature: 25°C±2°C

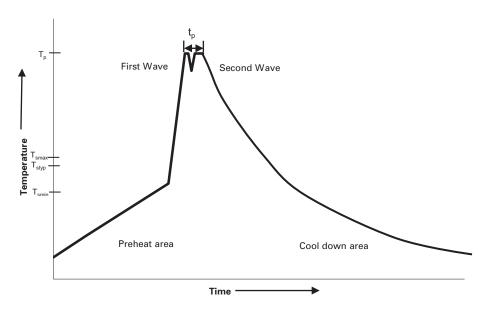


Environmental data

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

Wave solder profile

Reflow soldering not recommended



Reference EN 61760-1:2006

Profile Feat	ture	Standard SnPb Solder	Lead (Pb) Free Solder			
Preheat	• Temperature min. (T _{smin})	100°C	100°C			
	• Temperature typ. (T _{styp})	120°C	120°C			
	• Temperature max. (T _{smax})	130°C	130°C			
	• Time (T _{smin} to T _{smax}) (t _s)	70 seconds	70 seconds			
Δ preheat to max Temperature		150°C max.	150°C max.			
Peak temperature (Tp)*		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 r	ate	~ 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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