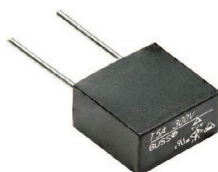


# SS-5F

## 250 V Fast-acting subminiature fuse



### Product description

- Fast-acting subminiature fuse
- Designed to UL 248-14
- Plastic cap and base, flammability UL 94V0
- 8.7 mm x 4.5 mm through hole package in a 8.05 mm height
- Protects against harmful overcurrents in primary and secondary applications
- Small radial-leaded design utilizes less board space
- Halogen free, lead free and 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

- cULus: Recognition file number E19180, Guide JDYX/JDYX7
- PSE: JET 1641-31007-1001, JET 1641- 31007-1002

### Ordering

- Use ordering number (see page 4 for details)

### Packaging suffixes

- -BK (200 parts in polybag, Lead L= 4.3 ±0.3 mm)
- -BK2 (200 parts in polybag, Lead L= 21 ±3.0 mm)
- -AP (1000 parts Ammo pack, Pitch =12.7 mm)

## Electrical characteristics

$I_n$	$1I_n$ min hour	$1.5I_n$ max minute	$2I_n$ max ms
800 mA - 10 A	4	10	2

## Product specifications

Part number <sup>5</sup>	Current rating (A)	Voltage rating ( $V_{AC}$ )	Interrupting rating at rated voltage <sup>1</sup> (50 Hz) AC ( $A_{AC}$ )	Typical DC cold resistance <sup>2</sup> (m $\Omega$ )	Typical melting <sup>3</sup> $I^2t$ (A <sup>2</sup> s)	Typical voltage drop <sup>4</sup> (mV)	cULus	PSE+
SS-5F-800mA	0.8	250	50	225	1.24	300	X	
SS-5F-1A	1.0	250	50	165.5	2.22	279	X	X
SS-5F-1.25A	1.25	250	50	116.5	3.83	244	X	X
SS-5F-1.6A	1.6	250	50	76	6.42	210	X	X
SS-5F-2A	2.0	250	50	55.5	9.35	194	X	X
SS-5F-2.5A	2.5	250	50	46	14.0	201	X	X
SS-5F-3.15A	3.15	250	50	31.5	22.5	168	X	X
SS-5F-4A	4.0	250	50	22.25	33.6	154	X	X
SS-5F-5A	5.0	250	50	16	53.7	154	X	X
SS-5F-6.3A	6.3	125	50	14.5	74.3	157	X	X
SS-5F-7A	7.0	125	50	11.4	107	133	X	X
SS-5F-8A	8.0	125	50	9.9	107	133	X	X
SS-5F-10A	10	125	50	6.5	146	109	X	X

1. Interrupting ratings: 800 mA to 10 A measured at 50 A, 95%-100% of PF on AC

2. Typical cold resistance measured at <10% of rated current

3.  $I^2t$  value measured at  $10I_n$

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

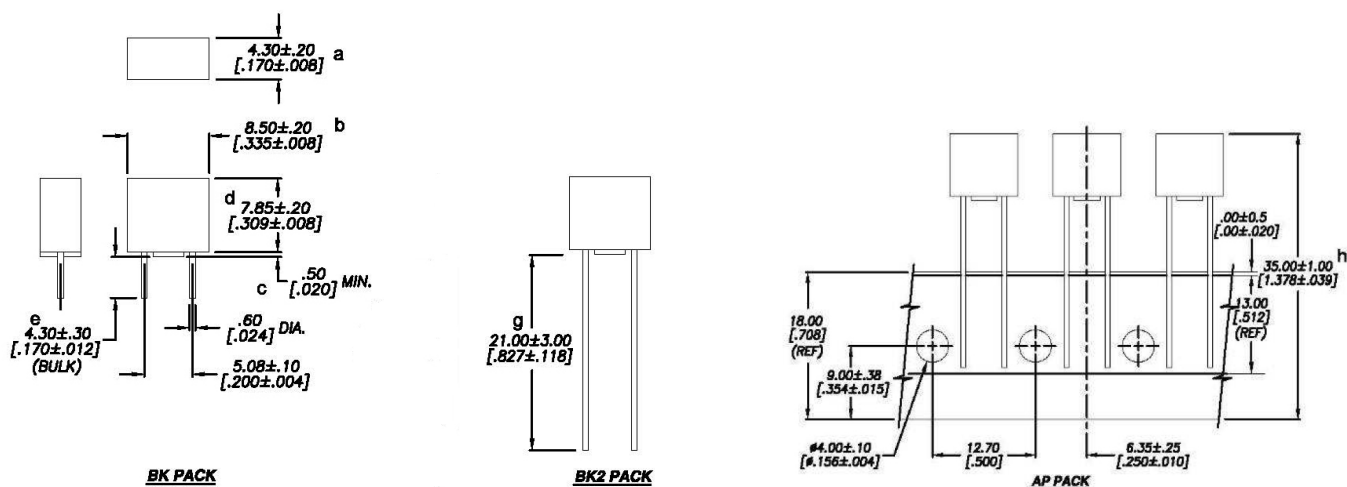
5. Part number definition: SS-5F-xxxA

SS-5F= Product code

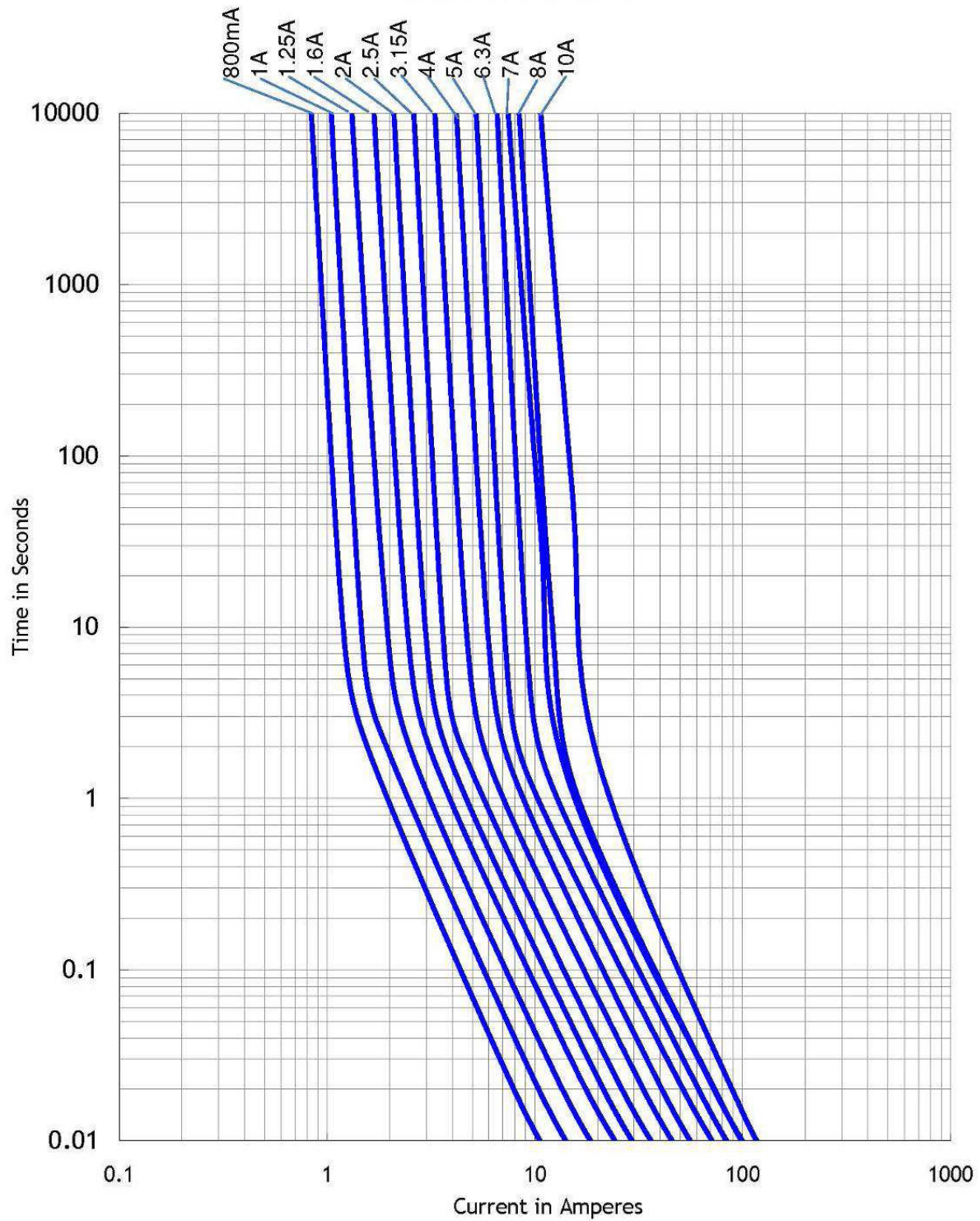
xxxA= Ampere rating

xxmA= Milliampere rating

## Dimensions and packaging- mm [in]

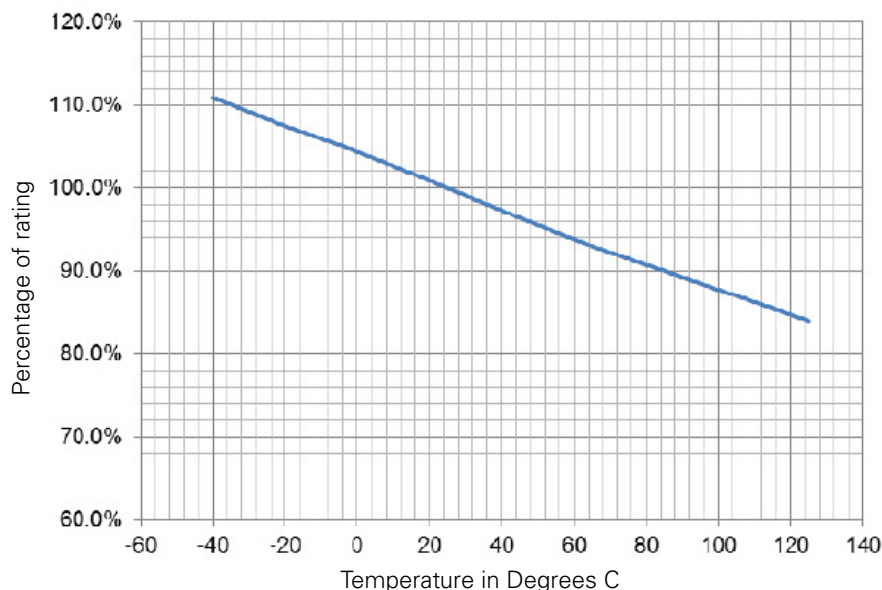


Time vs. current curve



## Temperature derating curve

Normal Operating Temperature: 25 °C ± 2 °C



## Environmental data

Operating temperature: -40 °C to +125 °C (with derating)

Storage temperature: -10 °C to +40 °C

Solderability: EIA-186-9E Method 9

High Frequency Vibration: Withstands 10 Hz to 55 Hz per MIL-STD-202F, Method 201A

## Ordering codes

The ordering code is the part number replacing the “ ” with a “-” plus adding the packaging suffix.

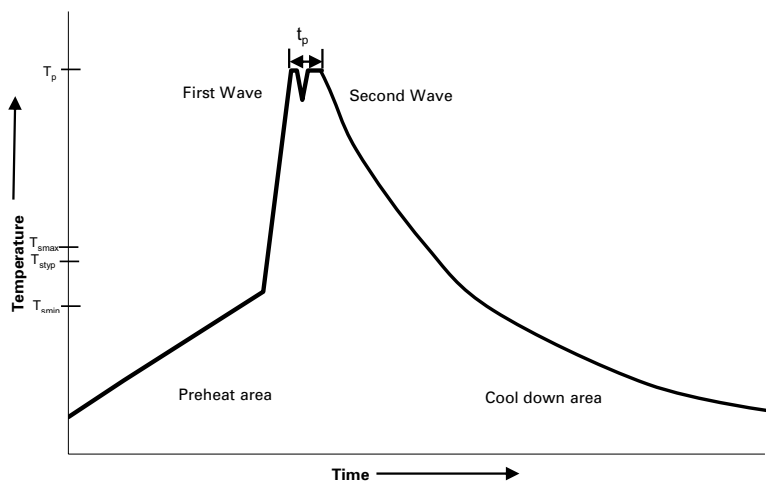
### Packaging suffix

- BK (200 parts in polybag, Lead L= 4.3 ±0.3 mm)
- BK2 (200 parts in polybag, Lead L= 21 ±3.0 mm)
- AP (1000 parts Ammo pack, Pitch =12.7 mm)

### Ordering Code

Part number	-BK option	-BK2 option	-AP option
SS-5F-800mA	SS-5F-800mA-BK	SS-5F-800mA-BK2	SS-5F-800mA-AP
SS-5F-1A	SS-5F-1A-BK	SS-5F-1A-BK2	SS-5F-1A-AP
SS-5F-1.25A	SS-5F-1-25A-BK	SS-5F-1-25A-BK2	SS-5F-1-25A-AP
SS-5F-1.6A	SS-5F-1-6A-BK	SS-5F-1-6A-BK2	SS-5F-1-6A-AP
SS-5F-2A	SS-5F-2A-BK	SS-5F-2A-BK2	SS-5F-2A-AP
SS-5F-2.5A	SS-5F-2-5A-BK	SS-5F-2-5A-BK2	SS-5F-2-5A-AP
SS-5F-3.15A	SS-5F-3-15A-BK	SS-5F-3-15A-BK2	SS-5F-3-15A-AP
SS-5F-4A	SS-5F-4A-BK	SS-5F-4A-BK2	SS-5F-4A-AP
SS-5F-5A	SS-5F-5A-BK	SS-5F-5A-BK2	SS-5F-5A-AP
SS-5F-6.3A	SS-5F-6-3A-BK	SS-5F-6-3A-BK2	SS-5F-6-3A-AP
SS-5F-7A	SS-5F-7A-BK	SS-5F-7A-BK2	SS-5F-7A-AP
SS-5F-8A	SS-5F-8A-BK	SS-5F-8A-BK2	SS-5F-8A-AP
SS-5F-10A	SS-5F-10A-BK	SS-5F-10A-BK2	SS-5F-10A-AP

## Wave solder profile



## Reference EN 61760-1:2006

Profile Feature	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
$\Delta$ preheat to max Temperature	150 °C max.	150 °C max.
Peak temperature ( $T_p$ )*	235 °C to 260 °C	250 °C to 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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