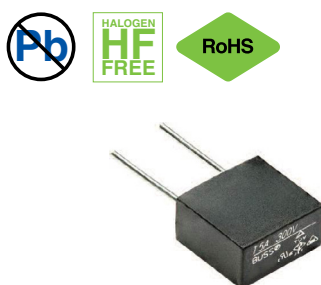


SS-5F

Fast-acting subminiature fuse



Product features

- 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
- Rated up to 250 Vac

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 ⁵	Current rating (A)	Voltage rating (V_{AC})	Interrupting rating at rated voltage ¹ (50 Hz) AC (A_{AC})	Typical DC cold resistance ² (m Ω)	Typical melting ³ I^2t (A ² s)	Typical voltage drop ⁴ (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

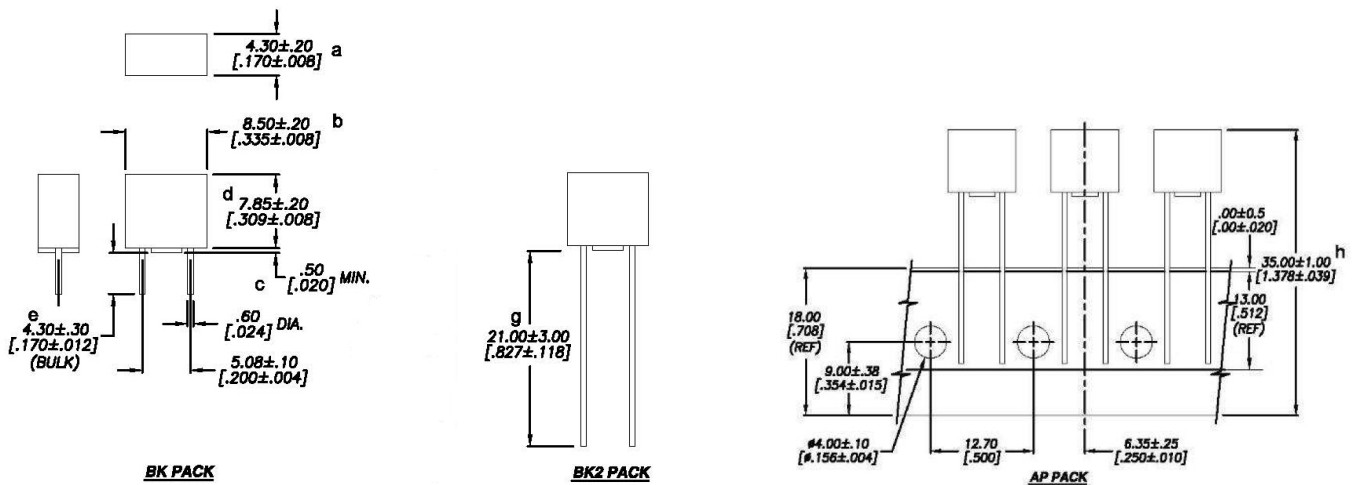
5. Part number definition: SS-5F-xxxA

SS-5F= Product code

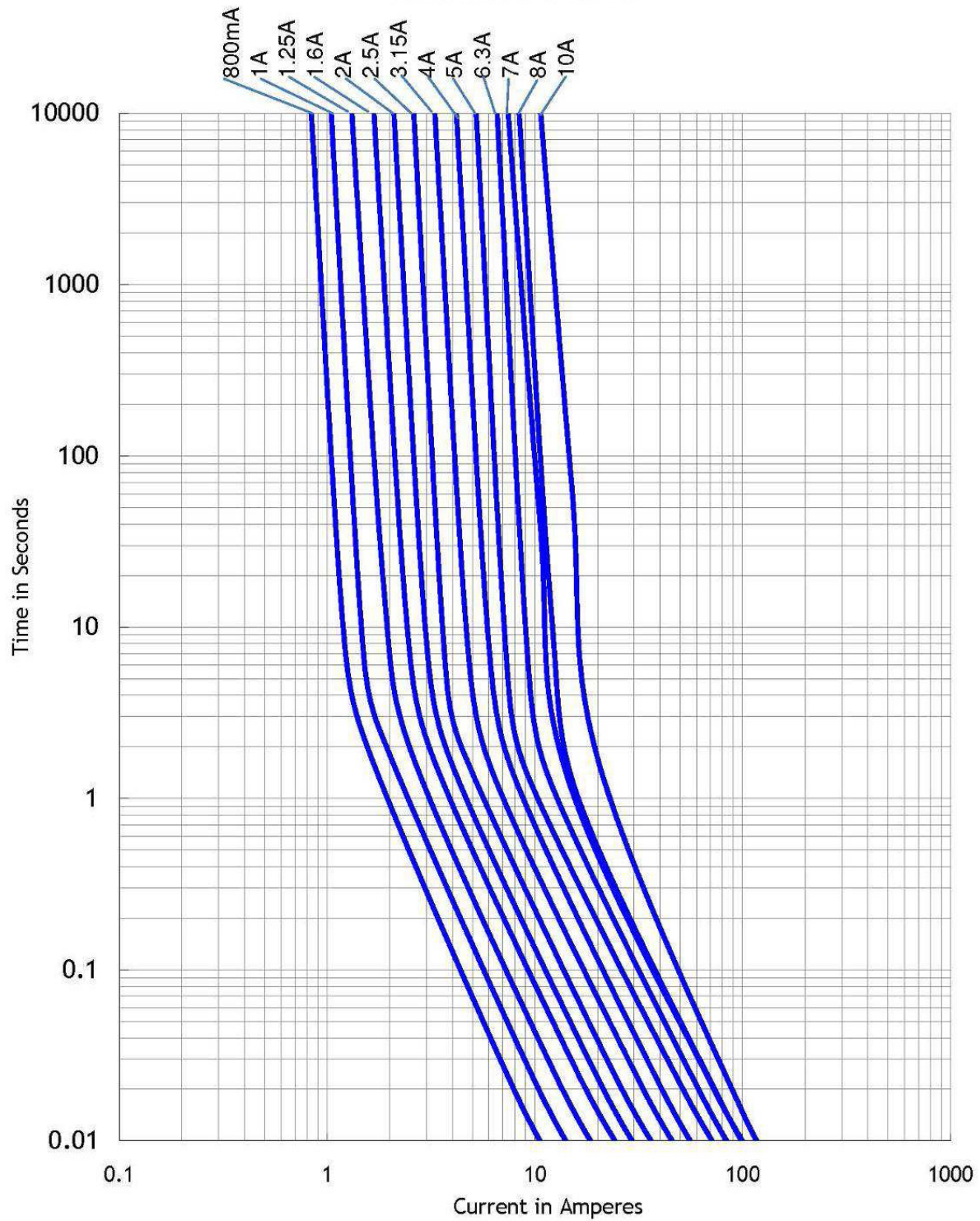
xxxA= Ampere rating

xxmA= Milliampere rating

Dimensions and packaging- mm [in]

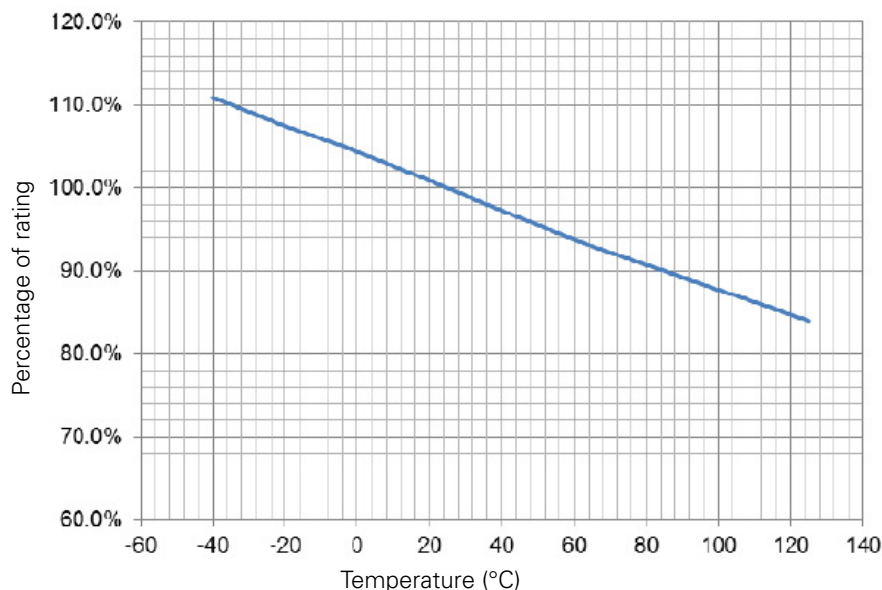


Time vs. current curve



Temperature derating curve

Normal Operating Temperature: 25 °C ± 2 °C



General specifications

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.

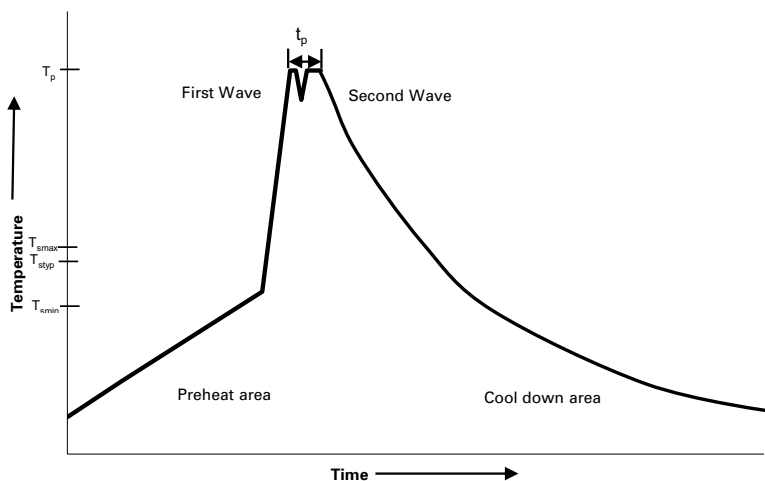
Packaging suffix

- 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
Δ 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.

Life Support Policy: Eaton does not authorize the use of any of its products for use in life support devices or systems without the express written approval of an officer of the Company. Life support systems are devices which support or sustain life, and whose failure to perform, when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.

Eaton reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Eaton also reserves the right to change or update, without notice, any technical information contained in this bulletin.

Eaton
Electronics Division
1000 Eaton Boulevard
Cleveland, OH 44122
United States
www.eaton.com/electronics

© 2022 Eaton
All Rights Reserved
Printed in USA
Publication No. 2622
May 2022

Eaton is a registered trademark.

All other trademarks are property
of their respective owners.

Follow us on social media to get the
latest product and support information.

