



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

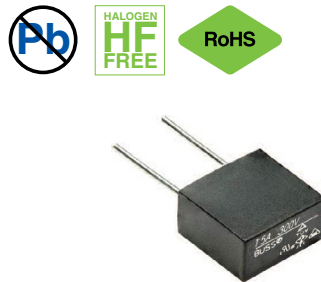
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# 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**

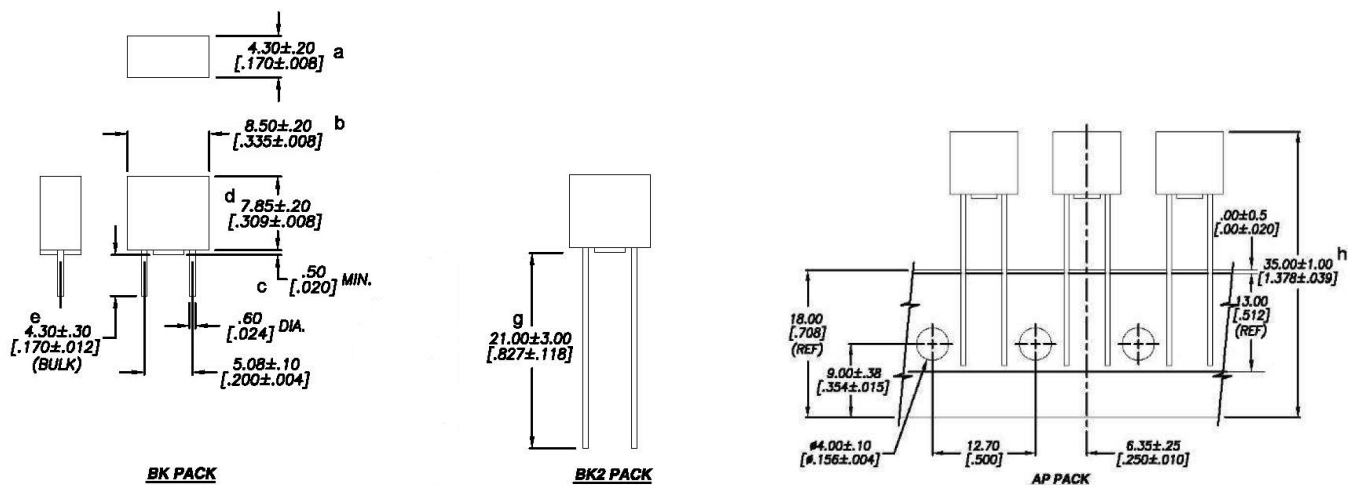
$I_n$	$1I_n$ min hour	$1.5I_n$ max minute	$2I_n$ max ms
800 mA - 10 A	4	10	2

**Product specifications**

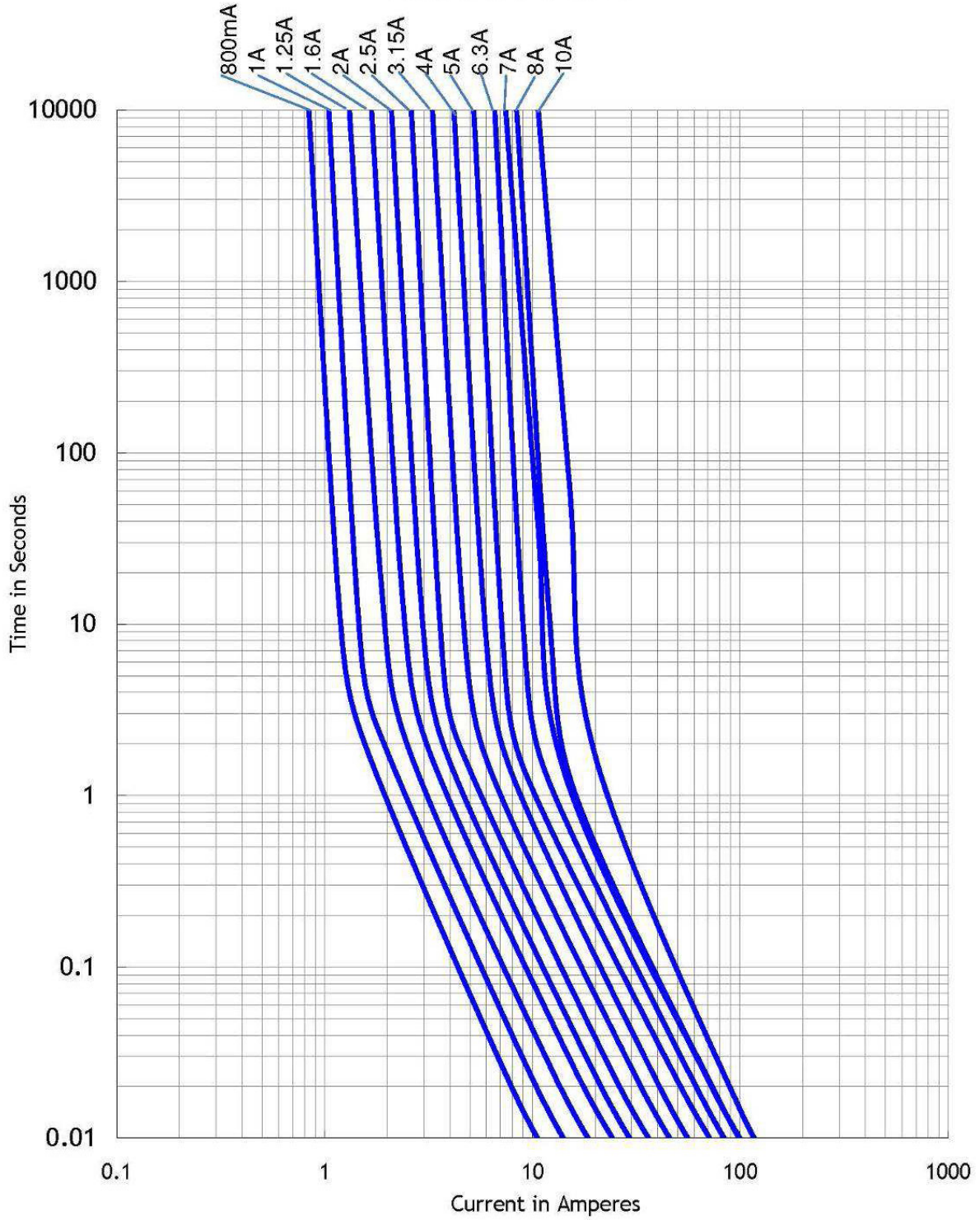
Part number <sup>5</sup>	Current rating (A)	Voltage rating ( $V_{AC}$ )	Interrupting rating at rated voltage <sup>1</sup> (50 Hz) AC ( $A_{AC}$ )	Typical DC cold resistance <sup>2</sup> (m $\Omega$ )	Typical melting <sup>3</sup> $I^2t$ (A <sup>2</sup> s)	Typical voltage drop <sup>4</sup> (mV)	cULus	PSE+
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  
 xxxmA= Milliampere rating

**Dimensions and packaging- mm [in]**

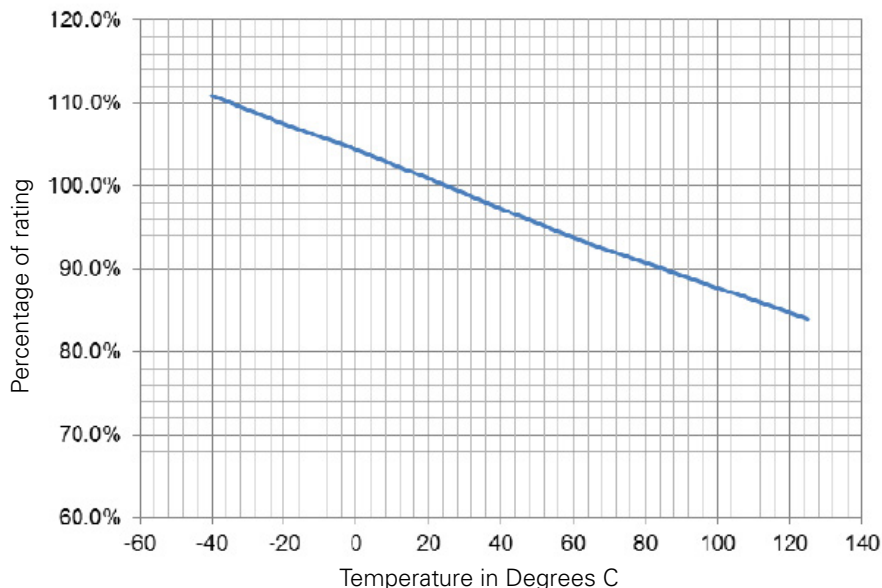


Time vs. current curve



### 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.

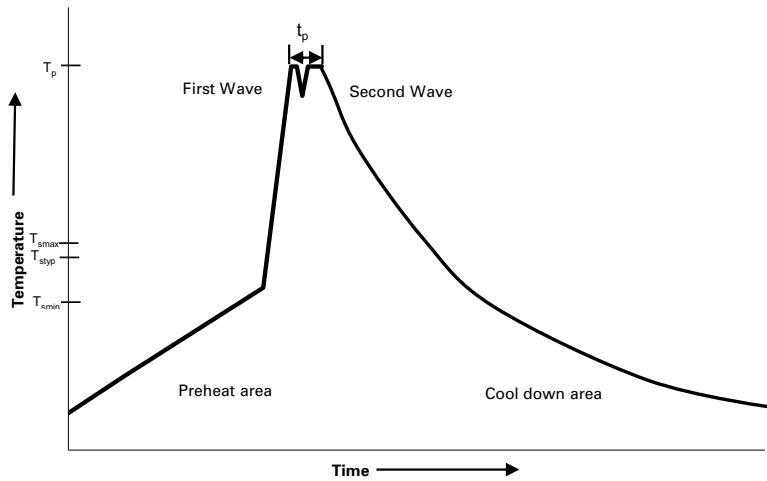
#### Packaging suffix

- -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
	• 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 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](http://www.eaton.com/electronics)

© 2016 Eaton  
All Rights Reserved  
Printed in USA  
Publication No. 2622 BU-SB07219  
July 2016