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-5

250 V Subminiature, radial leaded, time-delay fuses

Product description

- Radial leaded, time delay with low breaking capacity
- Designed to IEC60127-3 Sheet 4
- 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: 40015513
- CQC: 08012025533
- PSE:
  JET 1641-31007-1008 (1 A – 5 A)
  JET 1641-31007-1009 (6.3 A)
- KC:
  SU05011-8001 (400 mA – 800 mA)
  SU05011-8002 (1 A – 2.5 A)
  SU05011-8003 (3.15 A – 6.3 A)
- Semko:
  1516697 (630 mA, 1 A – 4 A)
  1124941 (500 mA, 800 mA, 5 A, 6.3 A)

Ordering

- Use ordering number (see page 6 for details)

Packaging suffixes

- -AP (1 000 parts Ammo pack, Pitch = 12.7)
- -BK (200 parts in a polybag, Lead L = 4.3 ± 0.3)
- -BK2 (200 parts in a polybag, Lead L = 21 ± 3.0)

Electrical characteristics

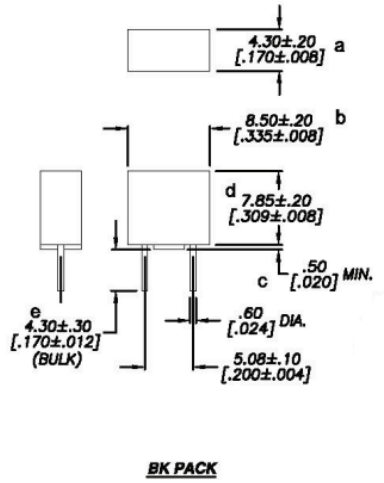
I_n	$1.5I_n$ minimum minute	$2.1I_n$ maximum minute	$2.75I_n$ minimum ms	$2.75I_n$ maximum s	$4I_n$ minimum ms	$4I_n$ maximum s	$10I_n$ minimum ms	$10I_n$ maximum ms
200 mA – 6.3 A	60	2	400	10	150	3	20	150

Product specifications

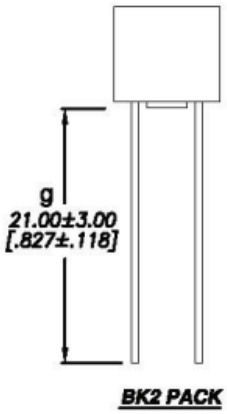
Part number	Current rating (A)	Voltage rating (V_{AC})	Interrupting rating at rated voltage[1] (50 Hz) (A_{AC})	Typical DC cold resistance[2] (mΩ)	Typical melting[3] I^2t (A^2s)	Typical voltage drop[4] (mV)	cURus	KC	VDE	CQC	SEMKO	PSE+ JET[1]
SS-5-200mA	0.2	250	35	960	0.35	212	X		X	X		
SS-5-400mA	0.4	250	35	330	1.67	147	X	X	X	X		
SS-5-500mA	0.5	250	35	258	1.79	152	X	X	X	X	X	
SS-5-630mA	0.63	250	35	140	1.51	101	X	X	X	X	X	
SS-5-800mA	0.8	250	35	118	4.21	111	X	X	X	X	X	
SS-5-1A	1.0	250	35	80.8	7.40	94.5	X	X	X	X	X	X
SS-5-1.25A	1.25	250	35	62.4	12.8	93.5	X	X	X	X	X	X
SS-5-1.6A	1.6	250	35	41	23	71.5	X	X	X	X	X	X
SS-5-2A	2.0	250	35	31.2	29.8	75	X	X	X	X	X	X
SS-5-2.5A	2.5	250	35	24.3	40.3	74.5	X	X	X	X	X	X
SS-5-3.15A	3.15	250	35	16.8	67	62.5	X	X	X	X	X	X
SS-5-4A	4.0	250	40	12.8	87	65.4	X	X	X	X	X	X
SS-5-5A	5.0	250	50	7.35	120	43	X	X	X	X	X	X
SS-5-6.3A	6.3	250	63	7.4	176	59	X	X	X	X	X	X

1. 200 mA to 3.15 A measured at 35 A, 95% - 100% of PF on AC. 4 A – 6.3 A measured at 10 times of rating current 95% - 100% of PF on AC.
2. Typical cold resistance measured at < 10% of rated current
3. I^2t value is measured at $10I_n$ DC
4. Typical voltage drop measured at 20 °C ambient temperature and rated current

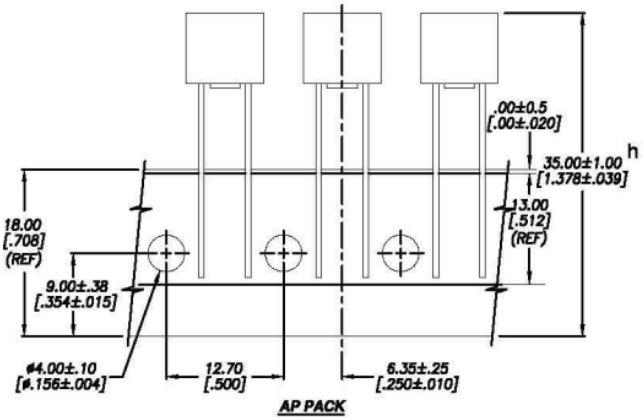
Dimensions and packaging – mm [in]



BK PACK

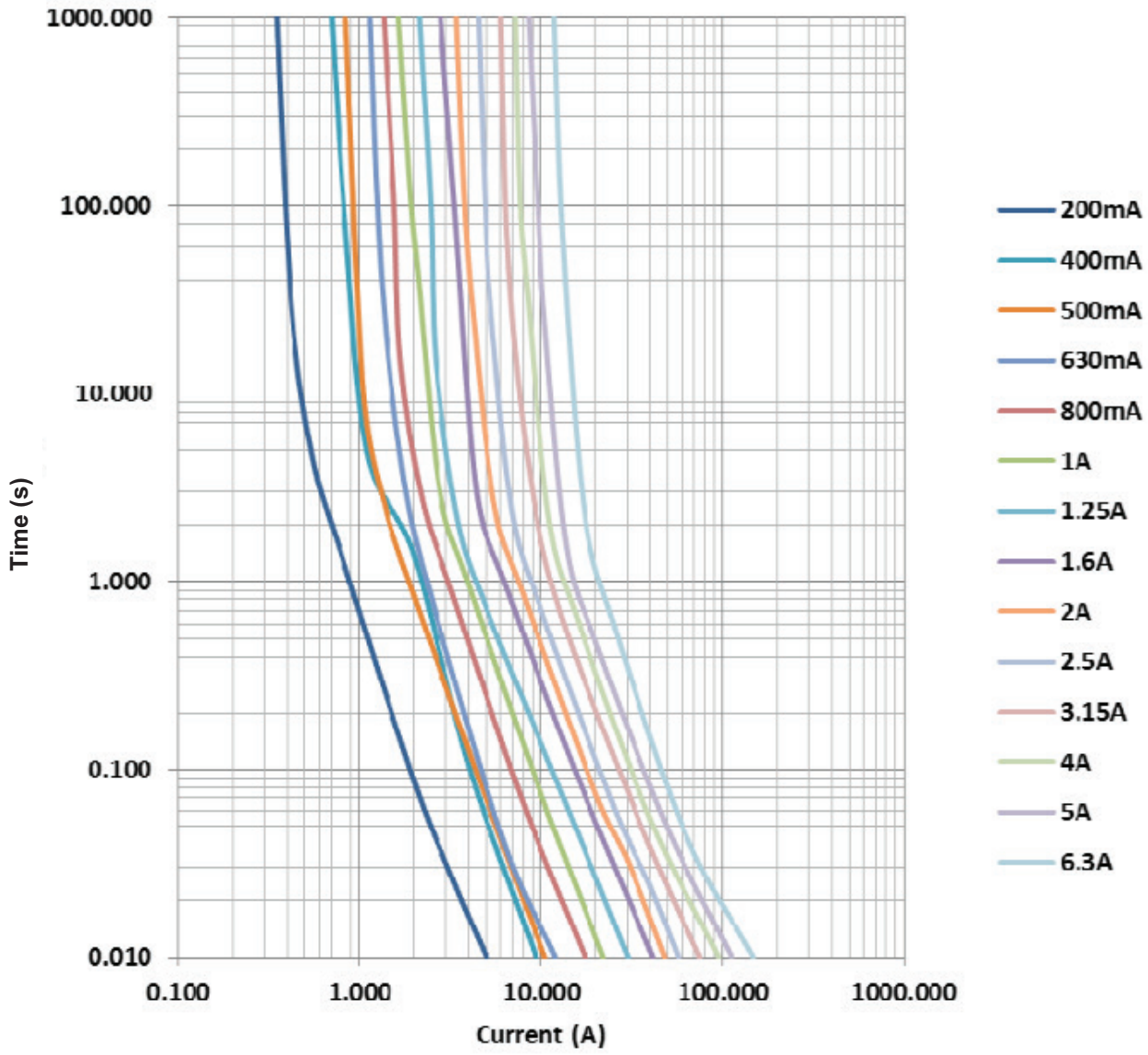


BK2 PACK

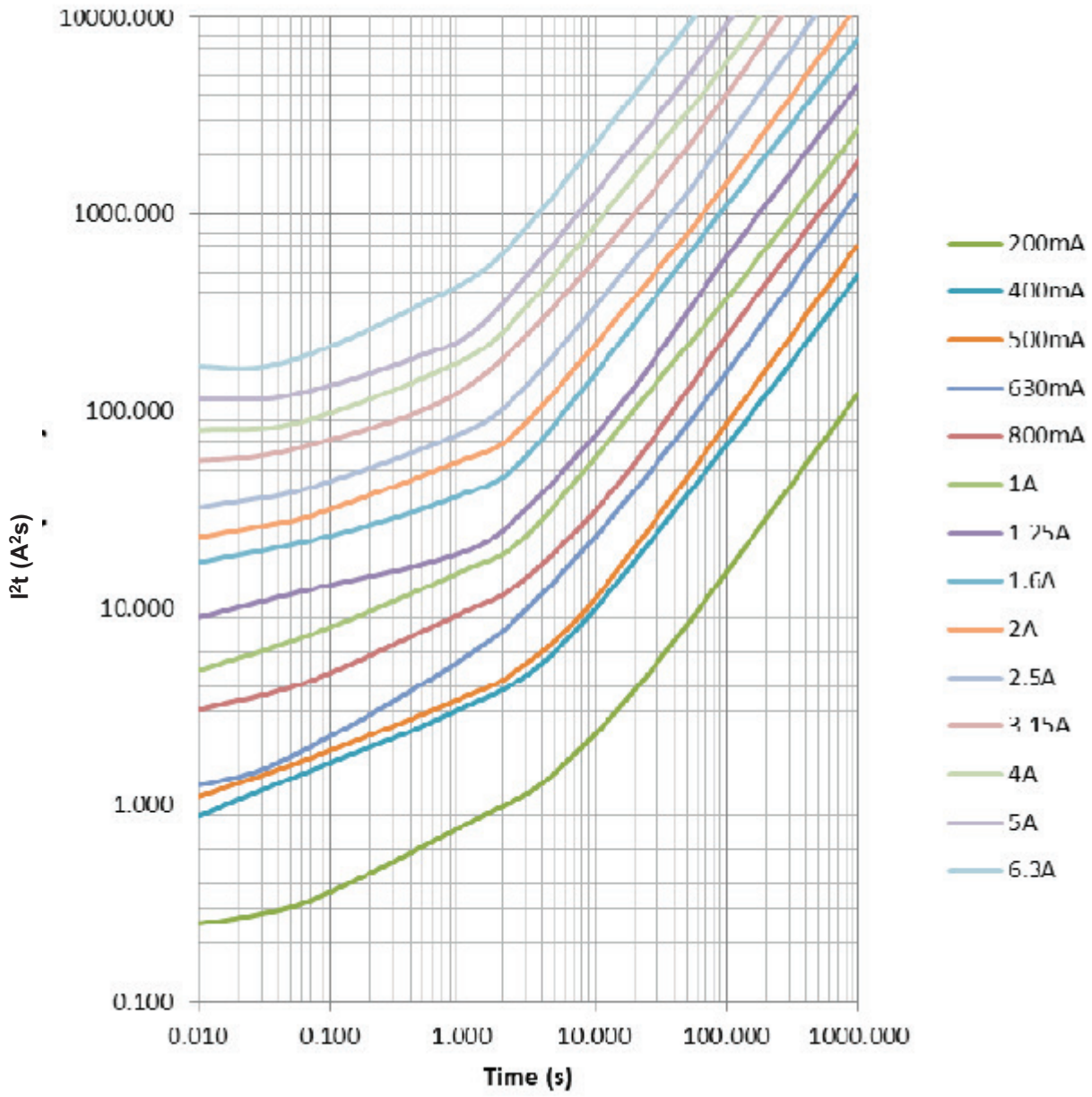


AP PACK

Time vs. current curve

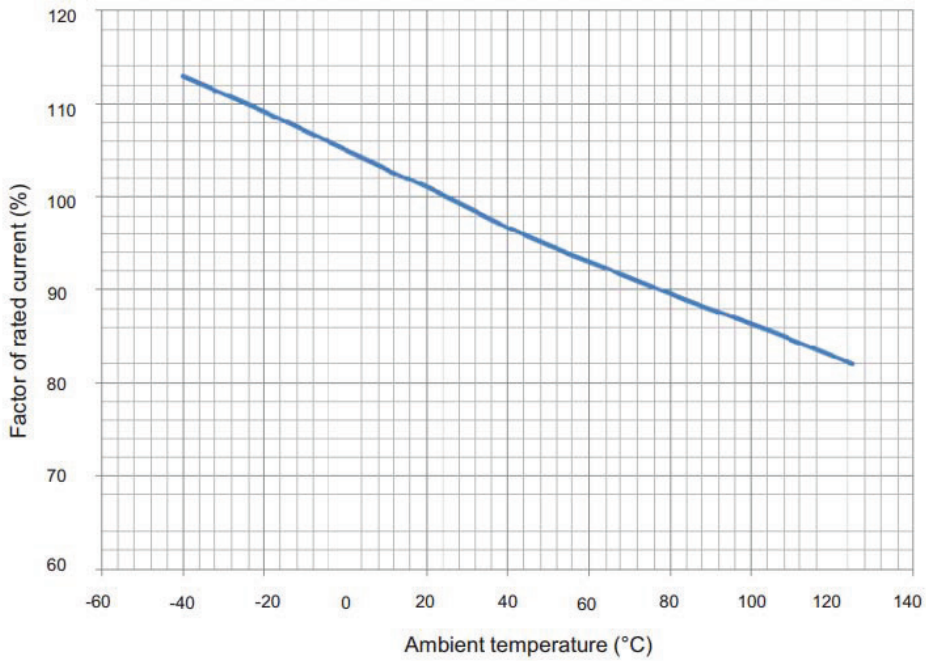


I^2t vs. time curve



Temperature derating curve

Normal Operating Temperature: +25 °C ±2 °C



Environmental data

Operating temperature: -40 °C to +125 °C with proper correction factor applied
Storage temperature: -10 °C to 40 °C
Solderability: EIA-186-9E Method 9
High frequency vibration test: Withstands 10-55 Hz per MIL-STD-202F, Method 201A
Endurance test: IEC60127-3/4

Ordering codes

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

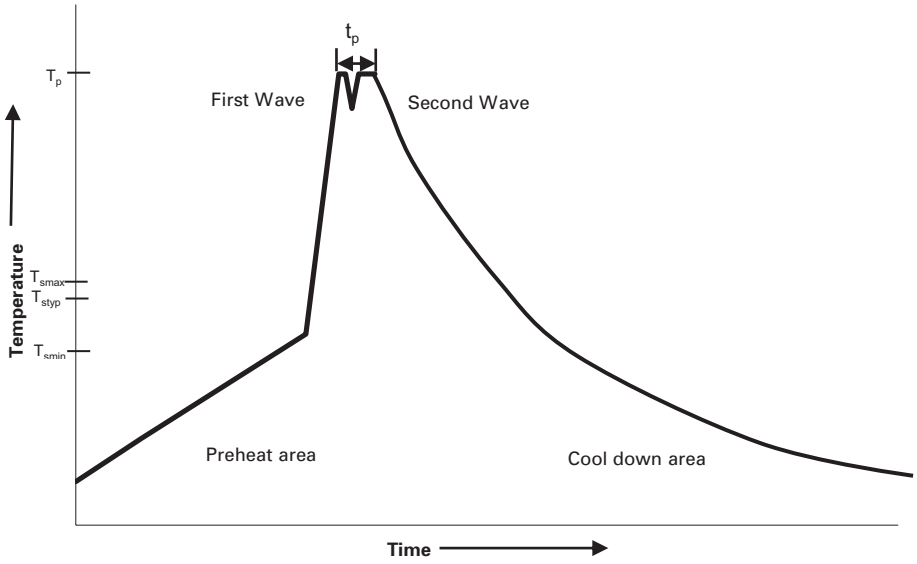
Packaging suffixes

- -AP (1 000 parts Ammo pack, Pitch = 12.7)
- -BK (200 parts in a polybag, Lead L = 4.3 ± 0.3)
- -BK2 (200 parts in a polybag, Lead L = 21 ± 3.0)

	Ordering codes		
Part number	**-AP option**	**-BK option**	**-BK2 option**
SS-5-200mA	SS-5-200mA-AP	SS-5-200mA-BK	SS-5-200mA-BK2
SS-5-400mA	SS-5-400mA-AP	SS-5-400mA-BK	SS-5-400mA-BK2
SS-5-500mA	SS-5-500mA-AP	SS-5-500mA-BK	SS-5-500mA-BK2
SS-5-630mA	SS-5-630mA-AP	SS-5-630mA-BK	SS-5-630mA-BK2
SS-5-800mA	SS-5-800mA-AP	SS-5-800mA-BK	SS-5-800mA-BK2
SS-5-1A	SS-5-1A-AP	SS-5-1A-BK	SS-5-1A-BK2
SS-5-1.25A	SS-5-1-25A-AP	SS-5-1-25A-BK	SS-5-1-25A-BK2
SS-5-1.6A	SS-5-1-6A-AP	SS-5-1-6A-BK	SS-5-1-6A-BK2
SS-5-2A	SS-5-2A-AP	SS-5-2A-BK	SS-5-2A-BK2
SS-5-2.5A	SS-5-2-5A-AP	SS-5-2-5A-BK	SS-5-2-5A-BK2
SS-5-3.15A	SS-5-3-15A-AP	SS-5-3-15A-BK	SS-5-3-15A-BK2
SS-5-4A	SS-5-4A-AP	SS-5-4A-BK	SS-5-4A-BK2
SS-5-5A	SS-5-5A-AP	SS-5-5A-BK	SS-5-5A-BK2
SS-5-6.3A	SS-5-6-3A-AP	SS-5-6-3A-BK	SS-5-6-3A-BK2

Wave solder profile

Reflow soldering not recommended



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 – 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 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.

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

Publication No. 2621 BU-MC16007
January 2016

Powering Business Worldwide