

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!



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S505SC

5 x 20 mm Time-delay, axial lead ceramic tube fuses



5 x 20mm fuse with axial leads

Product description

- Time-delay, high breaking capacity
- Designed to IEC 60127-2
- Nickel-plated brass end cap construction
- 5 x 20mm physical size
- Halogen free, lead free, RoHS compliant

Applications

Primary circuit protection:

- Power supplies
- LED lighting
- LED/LCD televisions
- Appliances and white goods
- Printers

Agency information

- cURus Recognition file number: E19180, Guide JDYX2/JDYX8
- SEMKO: File 1219335, 1310139
- VDE: File 40024252, 40037710 (1-8A)
- BSI: File KM55676
- IMQ: File CA03.00529
- PSE/JET: JET1641-31003-1010, JET1641-31003-2002, JET7042-31003-2001
- CQC: 12012079823, 13012103317
- KC-Mark: File SU05011-12003, SU05011-12004, SU05011-12005A, SU05030-13003A, SU05030-13004, SU05030-13005
- TUV: J50233218

Ordering

- Specify packaging prefix and part number as shown

Packaging prefix
BK/

Part number
S505SC-1-R

Packaging prefixes

- BK/ 20 parts in a carrier, 5 carriers in a box
- TR2/1500 parts per reel, tape width 52mm
- TR3/1500 parts per reel, tape width 54mm

Electrical characteristics

I_n	1.5 I_n min minute	2.1 I_n max minute	2.75 I_n min ms	max s	4 I_n min ms	max s	10 I_n min ms	max ms
1A-3.15A	60	30	750	80	95	5	10	150
4A-6.3A	60	30	750	80	150	5	10	150
8A-10A	30	30	750	80	150	5	10	150

Product specifications

Part number ⁵	Voltage rating AC	Interrupting rating at rated voltage (50 Hz) AC ¹ (amps)	Typical DC cold resistance (Ω) ²	Typical pre-arc I^2t (A^2s) ³	Typical voltage drop (mV) ⁴	IMQ	VDE	SEMKO	cURus	PSE/JET	KC	BSI	TUV
S505SC-1-R	250	1500	0.169	1.38	180	X	X	X	X	X	X	X	X
S505SC-1.25-R	250	1500	0.108	2.14	151	X	X	X	X	X	X	X	X
S505SC-1.6-R	250	1500	0.070	7.35	130	X	X	X	X	X	X	X	X
S505SC-2-R	250	1500	0.055	9.83	123.5	X	X	X	X	X	X	X	X
S505SC-2.5-R	250	1500	0.040	19.9	119	X	X	X	X	X	X	X	X
S505SC-3.15-R	250	1500	0.031	40.4	110	X	X	X	X	X	X	X	X
S505SC-4-R	250	1500	0.018	41.0	89.8	X	X	X	X	X	X	X	X
S505SC-5-R	250	1500	0.013	71.2	88	X	X	X	X	X	X	X	X
S505SC-6.3-R	250	1500	0.010	152	72.5	X	X	X	X	X	X	X	X
S505SC-8-R	250	1500	0.007	237	82.5	X	X	X	X	X	X	X	X
S505SC-10-R	250	1500	0.005	353	70	X	X	X	X	X	X	X	X

1 Interrupting ratings 1A to 10A were measured at 70% to 80% PF on AC.

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

3. Typical I^2t value is measured at 10 times the rated current under DC.

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

5. Part number definition: S505SC-xxx-R

S505 = Product code

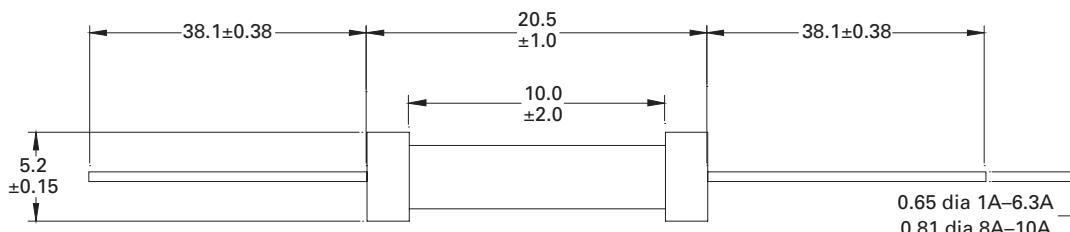
SC = Single cap

xxx = Ampere rating

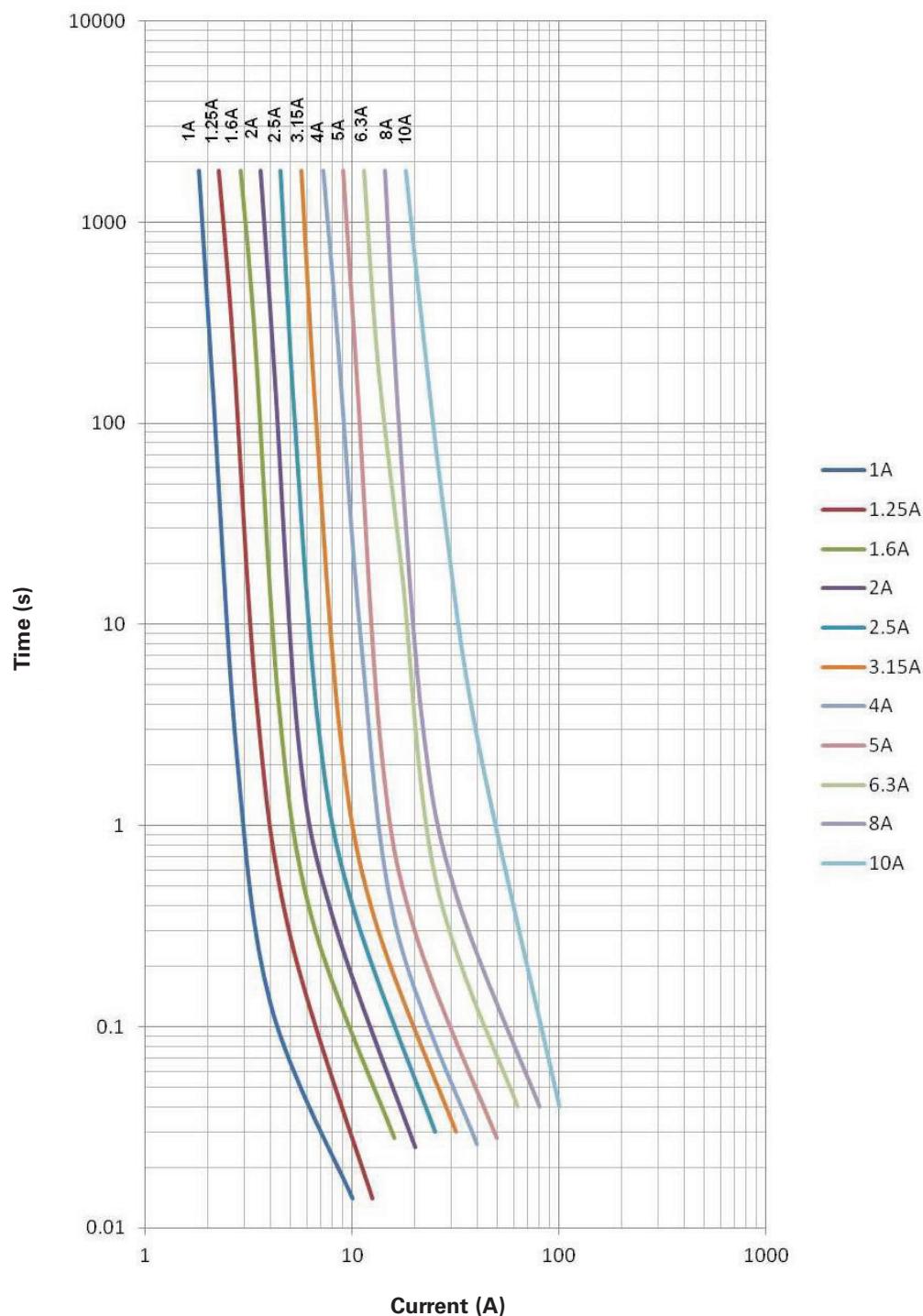
-R = RoHS compliant

Dimensions-mm

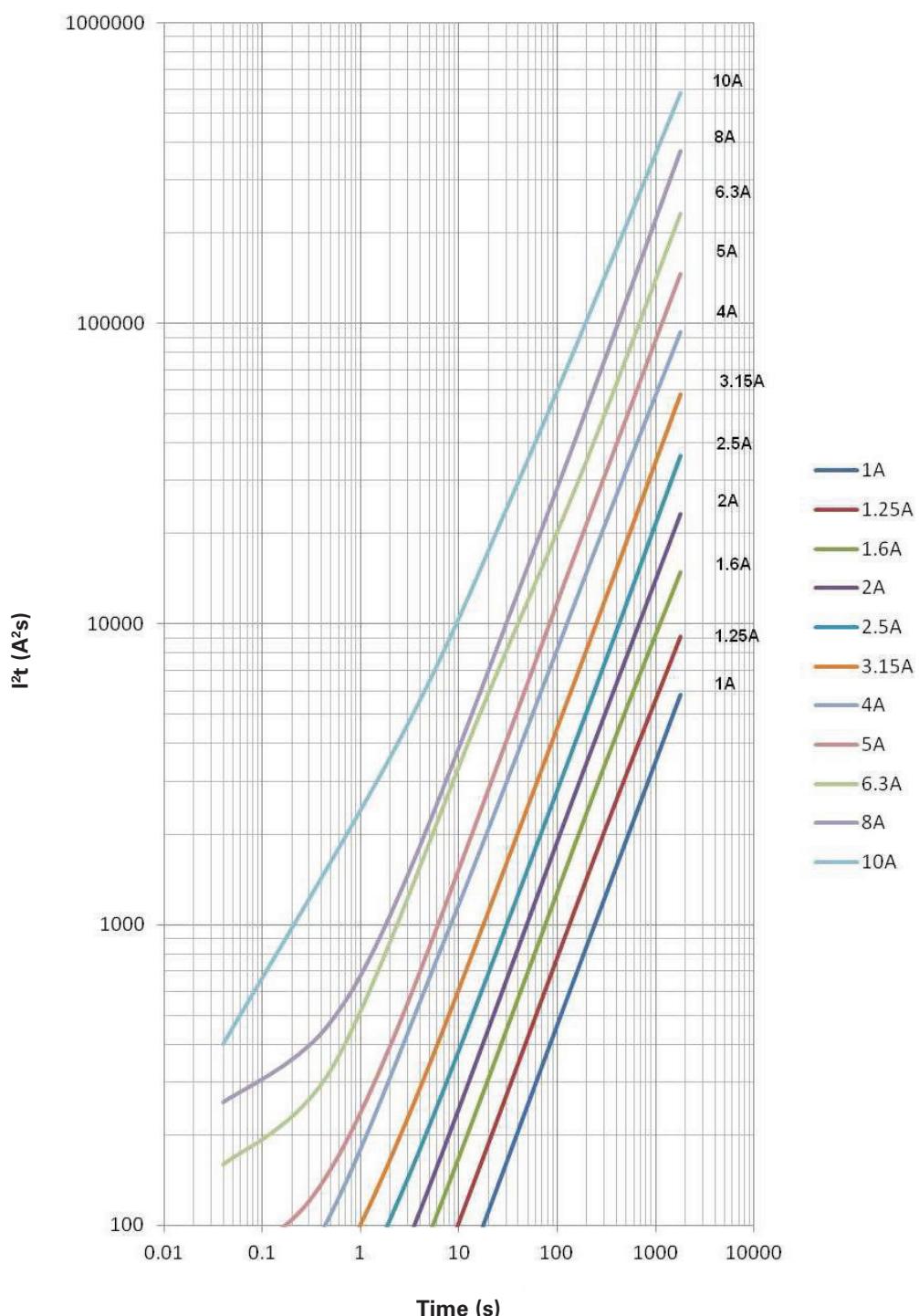
A
BK: 38.1 ± 0.38
TR2: 15.0 typ
TR3: 16.0 typ



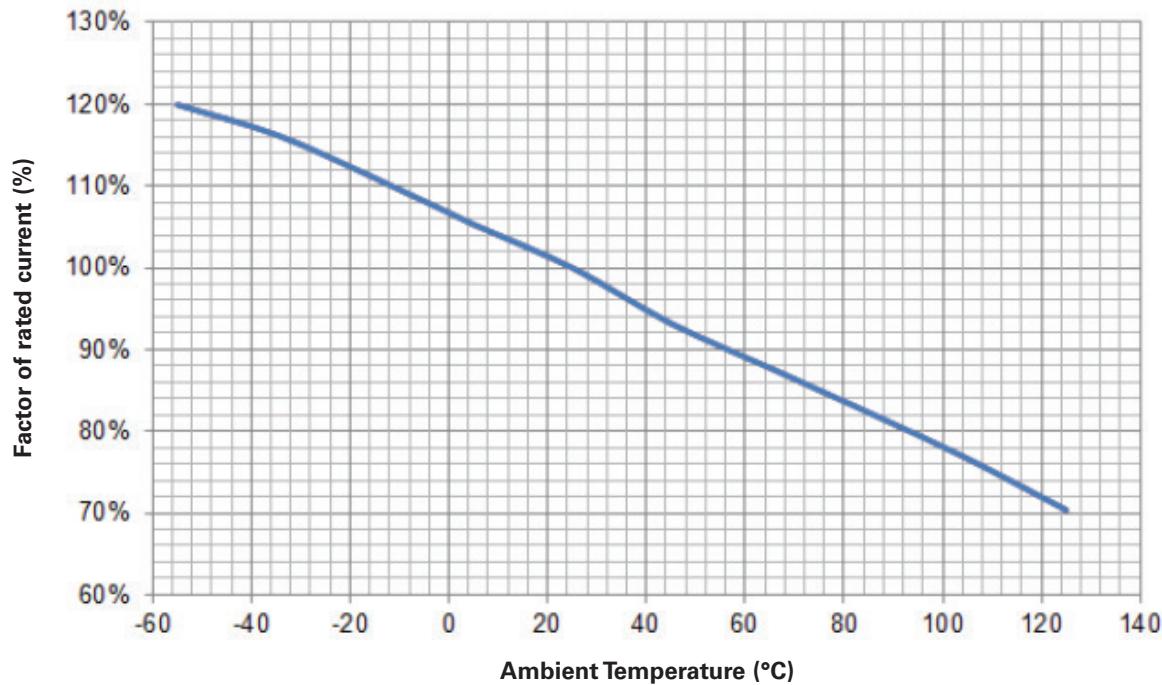
Time vs. current curve



I^2t vs. time curve



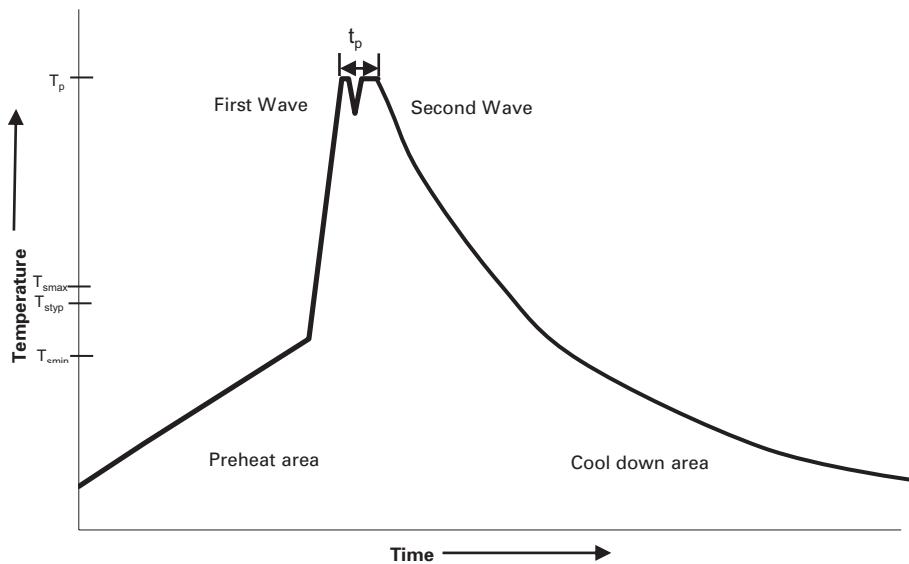
Temperature derating curve



Environmental data

Operating temperature: -55°C to 125°C (with derating)

Wave solder profile



Reference EN 61760-1:2006

Profile Feature	Standard SnPb Solder	Lead (Pb) Free Solder
Preheat	<ul style="list-style-type: none"> Temperature min. (T_{smin}) Temperature typ. (T_{styp}) Temperature max. (T_{smax}) Time (T_{smin} to T_{smax}) (t_s) 	100°C 120°C 130°C 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.

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