



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

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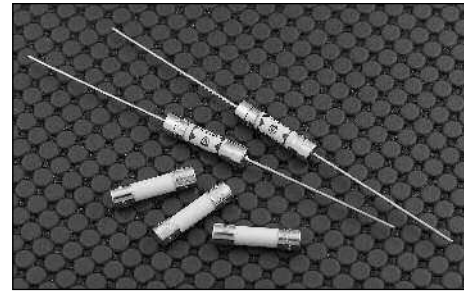
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

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



### Description

- Time delay, high breaking capacity
- Optional axial leads available
- 5mm x 20mm physical size
- Ceramic tube, nickel plated brass endcap construction
- Designed to IEC 60127-2 (1A-12A)



ELECTRICAL CHARACTERISTICS								
In	1.5 In min	2.1 In max	2.75 In		4 In		10 In	
			min	max	min	max	min	max
<1A	60 min	30 min	250 ms	80 sec	50 ms	5 sec	5 ms	55 ms
1A-3.15A	60 min	30 min	1 sec	80 sec	95 ms	5 sec	10 ms	100 ms
4A-10A	60 min	30 min	1 sec	80 sec	150 ms	5 sec	20 ms	100 ms
12.5A	--	30 min	1 sec	80 sec	150 ms	5 sec	20 ms	100 ms

### Agency Information

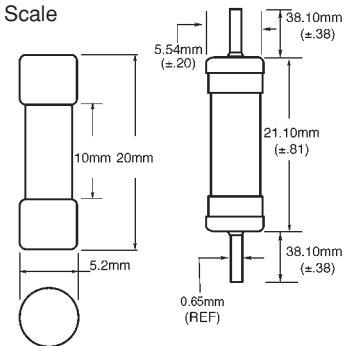
- UL Recognized Card: (500mA-12A) Guide JDYX2, File E19180
- CSA Component Acceptance: File 53787, 500mA-10A
- SEMKO Approval, 500mA-10A
- VDE Approval, 500mA-10A
- BSI Approval, 500mA-10A
- IMQ Approval, 500mA-10A
- CCC Approval, 500mA-6.3A

### Ordering

- Specify packaging, product, and option code
- For -R option, drop mA or A from product code (i.e. S505-3-R)

### Dimensions

Drawing Not to Scale



- Ratings above 6.3A have a 0.8mm diameter lead
- With TR2 packaging code, lead wire length is 19.05mm

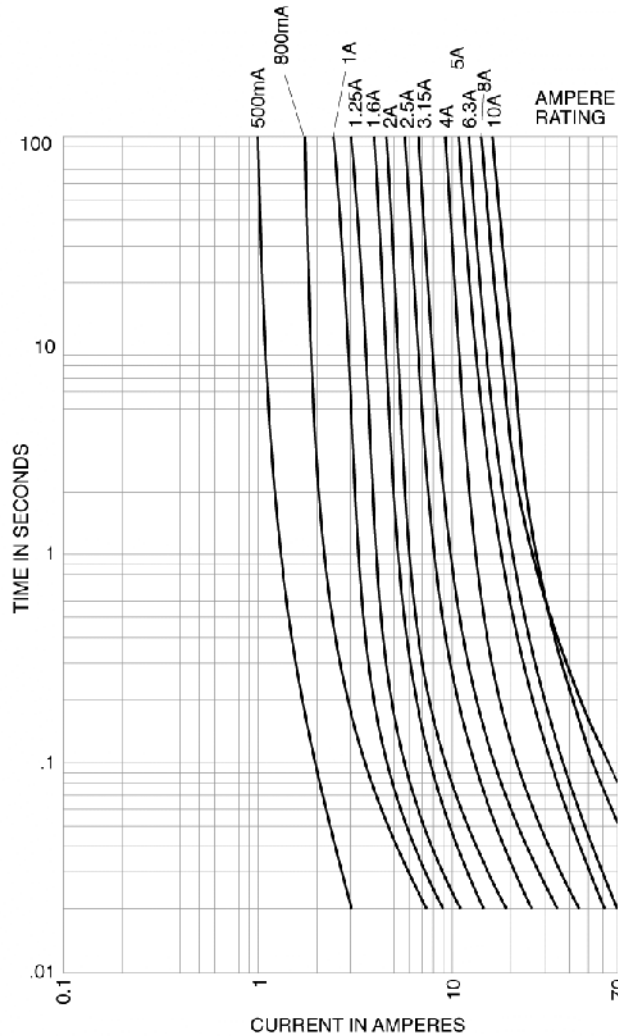
### SPECIFICATIONS

Product Code	Voltage Rating AC	Interrupting Rating at Rated Voltage (50Hz) AC	Typical DC Cold Resistance (ohms)*	Typical Melting I <sup>2</sup> t (A <sup>2</sup> Sec) AC†	Typical Voltage Drop (mV)‡
S505-500mA	250V	1500A	0.507	-	295
S505-800mA	250V	1500A	0.237	-	189
S505-1A	250V	1500A	0.138	0.74	170
S505-1.25A	250V	1500A	0.089	1.6	150
S505-1.6A	250V	1500A	0.060	3.5	130
S505-2A	250V	1500A	0.041	7.6	110
S505-2.5A	250V	1500A	0.030	14	100
S505-3.15A	250V	1500A	0.021	27	90
S505-4A	250V	1500A	0.015	52	85
S505-5A	250V	1500A	0.011	98	80
S505-6.3A	250V	1500A	0.008	197	75
S505-8A	250V	1500A	0.007	311	75
S505-10A	250V	1500A	0.006	397	72
S505-12A	250V	1000A	0.005	714*	77

\* DC Cold Resistance (Measured at <10% of rated current)  
 † Typical Melting I<sup>2</sup>t (I<sup>2</sup>t was measured at listed interrupting rating and rated voltage)  
 ‡ Typical Voltage Drop (Voltage drop was measured at 20°C ambient temperature at rated current)  
 x Typical Melting I<sup>2</sup>t was measured at 10 times the rated current under DC



**TIME CURRENT CURVE**  
**Time-Current Characteristics—Total Clear**



PACKAGING CODE	
Packaging Code	Description
BK	100 pieces of fuses packed into a cardboard carton
BK1	1,000 pieces of fuses packed into a poly bag
TR2	1,500 pieces of fuses packed into tape on a reel (19.05mm lead wire length)

OPTION CODE	
Option Code	Description
V	Axial leads - copper tinned wire with nickel plated brass overcaps
-R	RoHS compliant version