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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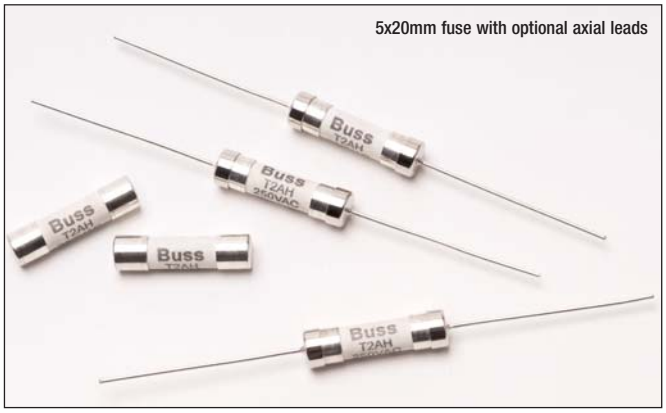
COOPER Bussmann

400Vdc/500-600Vac Time-Delay 5x20mm Fuses
S505H Series

HALOGEN HF FREE

RoHS

Pb



5x20mm fuse with optional axial leads

Description

400Vdc/500-600Vac Time-delay 5x20mm ceramic tube fuses with electroplated end caps. The S505H Series provides higher voltage ratings and breaking capacities than standard IEC 60127-2 fuses.

Features

- Time-delay, high breaking capacity
- 5 x 20mm physical size
- Ceramic tube with plated end cap construction
- Designed to IEC 60127-2, Standard, Sheet 5
- RoHS Compliant, lead free and halogen free
- Optional axial leads available

Applications

- Power supplies - adapters
- Desktops/notebooks
- TVs / Displays
- Set top boxes
- Lighting ballasts
- Battery chargers
- Printers B-SS 5MM fuse 2007-02
- Game systems
- Air conditioners

Agency Information

S505H-XXX-R (Ferrule)

- cURus approval: Guide JFHR2, File E56412 and Guide JFHR8, File E56412
- CCC: 2A-4A, Cert. No.: 2010010207395946; 5A-6.3A Cert. No.: 2010010207390567
- CQC Approval: 8A-10A, Cert. No.: CQC10012043350
- TUV Approval: 2A-10A, Cert. No.: R50172128
- PSE Approval: 1A-5A, Cert. No.: JET1641-31003-1009; 6.3A-10A, Cert. No: JET1641-31003-1011,

S505H-V-XXX-R (Axial Leads)

- PSE Approval: 1A-5A, Cert. No.: JET1641-31003-1010; 6.3A-10A, Cert. No: JET1641-31003-1012
- cURus approval: Guide JFHR2, File E56412 and Guide JFHR8, File E56412

Part Number System: TR2- S505H -V -2 -R

- TR2- — Package Code Prefix
- S505H — Series Number
- -V — Option Code
- -2 — Fuse Amps
- -R — RoHS Compliance

Ordering

Specify product by package code prefix and option code.

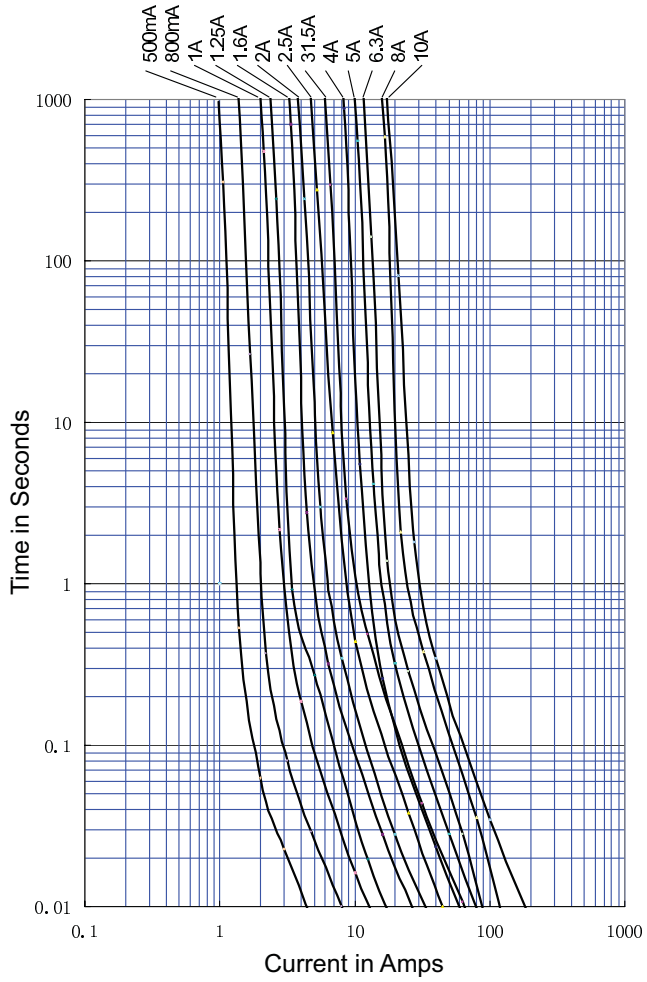
Specifications

Catalog Number	Voltage Rating Vac	Max. Voltage Rating[1] AC	Max. Voltage Rating[1] DC	Interrupting Rating (A)[2] Under 250 Vac	Interrupting Rating (A)[2] Under Max Volts	Interrupting Rating (A)[2] Under 400 Vdc	Typical DC Cold Resistance Ω[3]	Typical Voltage Drop (mV)[4]	Typical Value I²t (A²s)[5]	Agency Approvals 250Vac TUV[6]	CQC[6]	CCC[6]	PSE/JET	cURus[7]
S505H-500-R	250	600	400	1500	100	1500	0.507	295	0.188					x
S505H-800-R	250	600	400	1500	100	1500	0.237	189	0.632					x
S505H-1-R	250	600	400	1500	100	1500	0.14	153	1.28				X	x
S505H-1.25-R	250	600	400	1500	100	1500	0.108	150	2.22				X	x
S505H-1.6-R	250	600	400	1500	100	1500	0.07	125	6.78				X	x
S505H-2-R	250	600	400	1500	100	1500	0.055	128	11.44	X		X	X	x
S505H-2.5-R	250	600	400	1500	100	1500	0.04	126	24.23	X		X	X	x
S505H-3.15-R	250	600	400	1500	100	1500	0.031	121	43.55	X		X	X	x
S505H-4-R	250	600	400	1500	100	1500	0.019	90	38.45	X		X	X	x
S505H-5-R	250	600	400	1500	100	1500	0.015	89	71.3	X		X	X	x
S505H-6.3-R	250	500	400	1500	100	1500	0.011	80	111.4	X		X	X	x
S505H-8-R	250	500	400	1500	100	1500	0.007	76	228.2	X	X		X	x
S505H-10-R	250	500	400	1500	100	1500	0.006	72	349.5	X	X		X	x

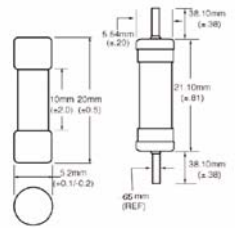
1. Max. Voltage rating: Base on the breaking capacity test according to UL.
2. - Breaking Capacity of 250VAC/1500A is tested by all agency approvals, test condition is 250Vac, PF: 0.7-0.8.
   - Breaking Capacity of Max. voltage is tested by UL, PF:1.
   - Breaking Capacity Test of DC is tested by UL under Capacitor Bank 4800mF (for 400V, 1500A), 2400mF (for 400V, 500A).
3. Cold Resistance: Measure at <10% rated current.
4. Typical Voltage Drop: Voltage drop is measured under ambient 20°C with rated current
5. Typical Pre-Arc I²t: Measured at $10I_n$ DC
6. Does not apply to axial leaded versions.
7. 600/500Vac, 400Vdc.

Electrical Characteristics								
	1.5I_n	2.1I_n	2.75I_n		4I_n		10I_n	
Amps	Min min.	Max min.	Min ms	Max s	Min ms	Max s	Min ms	Max ms
<1A	>60	<30	>250	<80	>50	<5	>5	<150
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

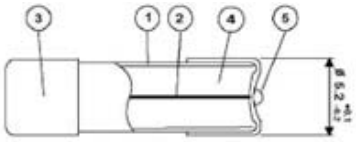
Time-Current Curves



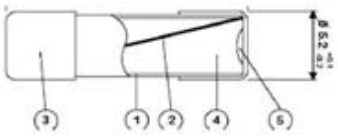
Dimensions - mm



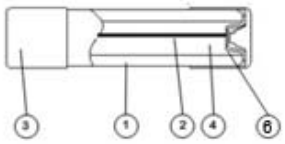
Construction



500-800mA

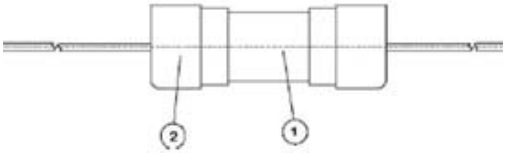


1-1.6 Amps



2 Amps & Above

1. Ceramic Tube
2. Wire Fuse Element
3. Plated Fuse Cap
4. Filler
5. Solder
6. Eyelet

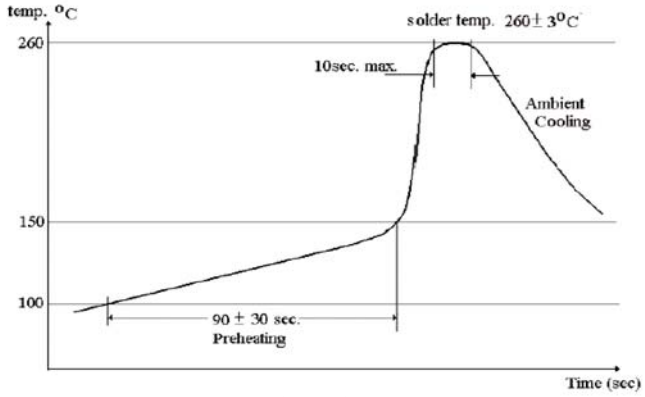


Axial Leaded Versions

1. S505H-XXX-R
2. Axial Leaded Cap

Wave Soldering Parameters

Note: These devices are NOT recommended for IR or convection reflow processes.



- Reservoir Temperature: 260°C ± 3°C
- Soldering Time: 10 seconds max.

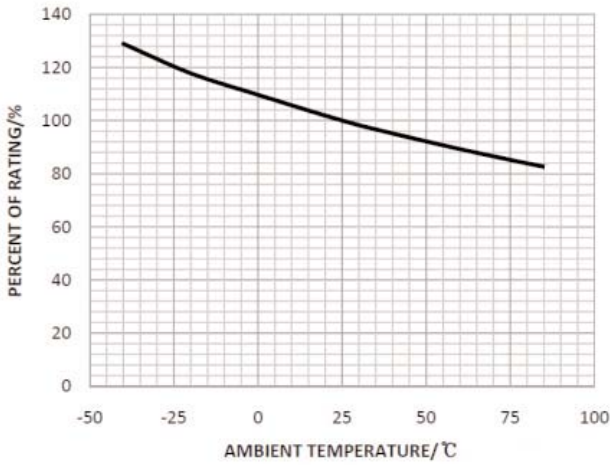
Recommended Hand Solder Parameters

- Soldering Iron Tip Temperature: 350°C ± 5°C
- Heating Time: 5 seconds max.

Operating Temperature Range

- -40°C to +85°C (see temperature derating curve below for percentage of fuse rating per ambient temperature)

Temperature Derating Curve



Packaging Code	
Packaging Code Prefix	**Description**
BK-	100 fuses packed into a cardboard carton with flaps folded
BK1-	1000 fuses packed into a poly bag
TR2-	1500 axial leaded fuses on tape and reel
Option Code	
Option Code	**Description**
-V	Axial leads – copper tinned wire with nickel plated brass end caps
-R	RoHS compliant version