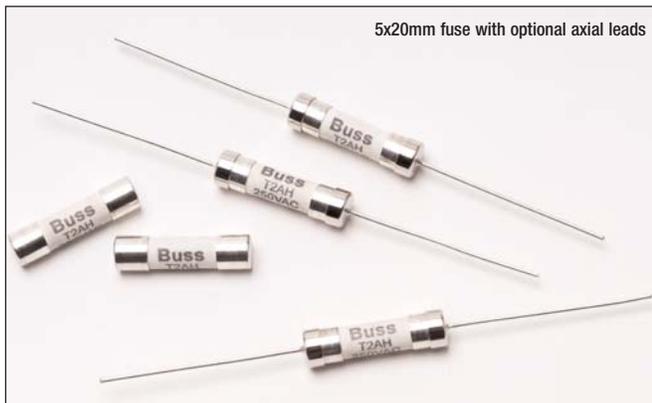


## 400Vdc/500-600Vac Time-Delay 5x20mm Fuses S505H Series



### 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

### Specifications

Catalog Number	Voltage Rating Vac	Max. Voltage Rating <sup>1</sup>		Interrupting Rating (A) <sup>2</sup> Under			Typical DC Cold Resistance Ω <sup>3</sup>	Typical Voltage Drop (mV) <sup>4</sup>	Typical Value I <sup>2</sup> t (A <sup>2</sup> s) <sup>5</sup>	Agency Approvals					
		AC	DC	250 Vac	Max Volts	400 Vdc				250Vac					
										TUV <sup>6</sup>	CQC <sup>6</sup>	CCC <sup>6</sup>	PSE/JET	cURus <sup>7</sup>	
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).

### 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

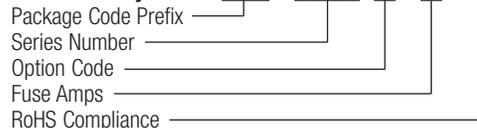
#### S505H-XXX-R (Ferrule)

- 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

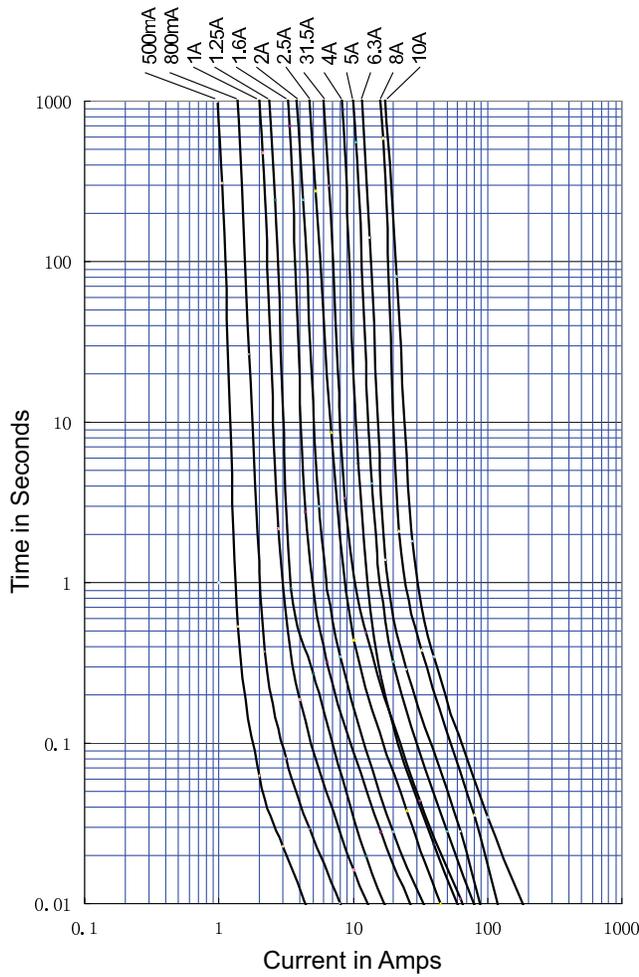


### Ordering

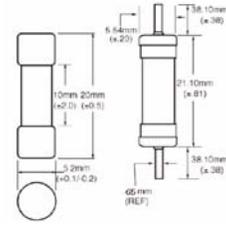
Specify product by package code prefix and option code.

Electrical Characteristics										
Amps	1.5I <sub>n</sub>		2.1I <sub>n</sub>		2.75I <sub>n</sub>		4I <sub>n</sub>		10I <sub>n</sub>	
	Min min.	Max min.	Min ms	Max s	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		

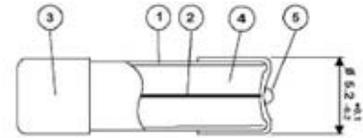
**Time-Current Curves**



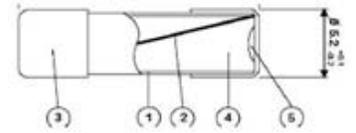
**Dimensions - mm**



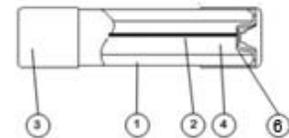
**Construction**



**500-800mA**

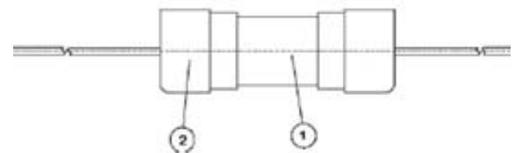


**1-1.6 Amps**



**2 Amps & Above**

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

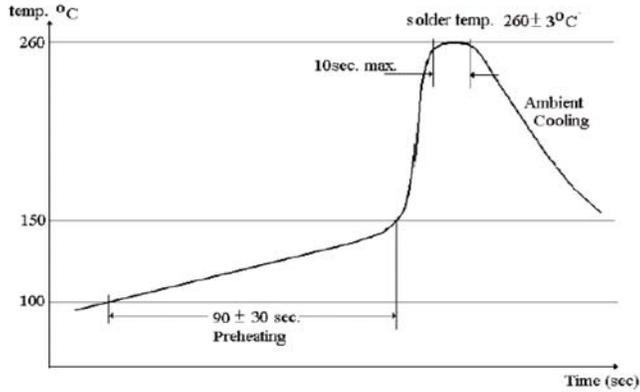


**Axial Leaded Versions**

- 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.

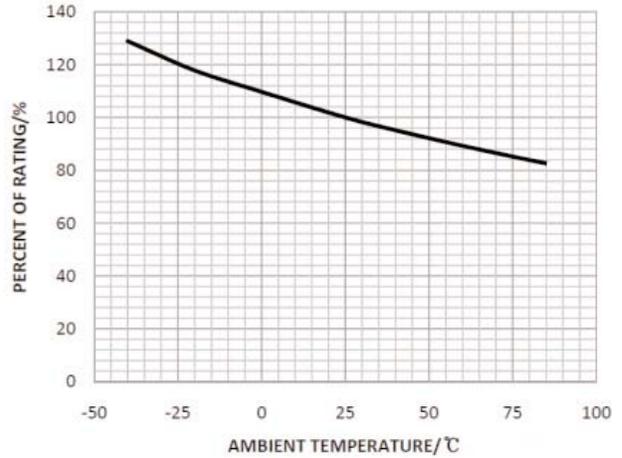
### Recommended Hand Solder Parameters

- 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

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