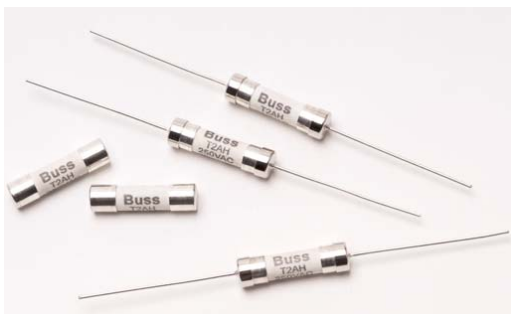


# S505H

## 5 mm x 20 mm 400 Vdc/500-600 Vac time-delay fuses



### Product features

- 400 Vdc/500-600 Vac rating
- Time-delay, high breaking capacity
- 5 mm x 20 mm 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

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 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

### Specifications

Catalog Number	Voltage Rating Vac	Max. Voltage Rating		Interrupting Rating (A) 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	CQC	CCC	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 250 VAC/1500 A is tested by all agency approvals, test condition is 250 Vac, 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 4800 mF (for 400 V, 1500 A), 2400 mF (for 400 V, 500 A).

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 I<sup>2</sup>t: Measured at 10In DC  
 6. Does not apply to axial leaded versions.  
 7. 600/500 Vac, 400 Vdc.

### Applications

- Power supplies - adapters
- Desktops/notebooks
- TVs / Displays
- Set top boxes
- Lighting ballasts
- Battery chargers
- Printers
- 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



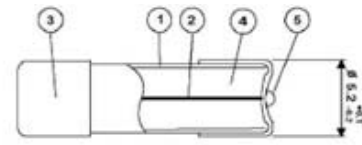
Powering Business Worldwide

**Dimensions - mm**

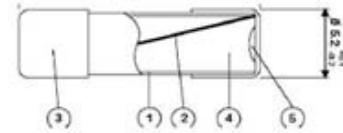


A (ref): 0.65 mm (0.5 A - 6.3 A), 0.80 mm (8 A-10 A)

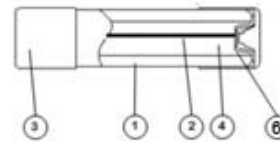
**Construction**



**500-800mA**



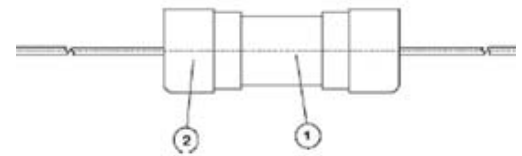
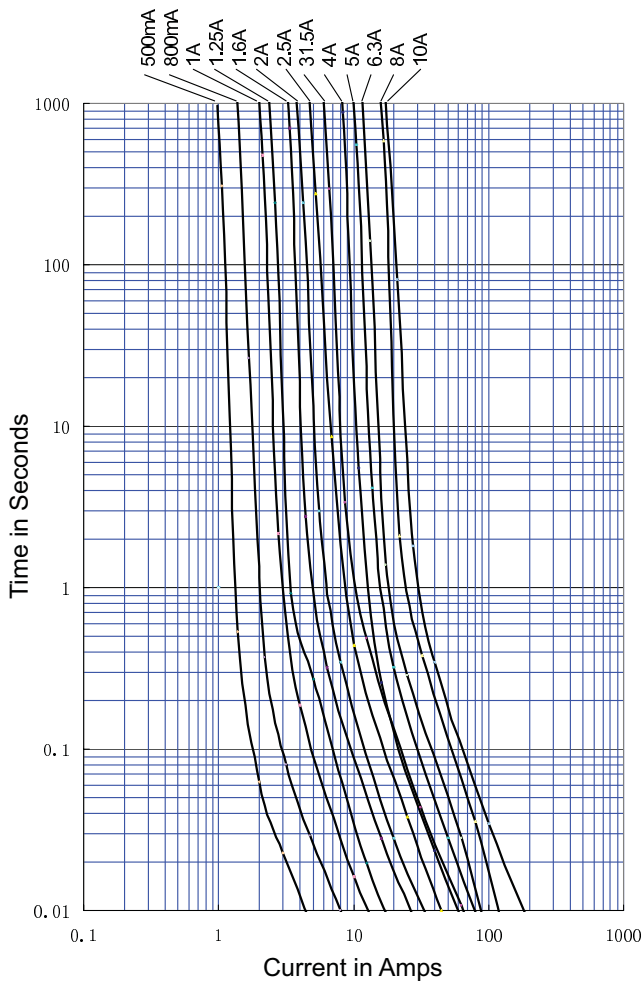
**1-1.6 Amps**



**2 Amps & Above**

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

**Time-Current Curves**



**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:  $260^{\circ}\text{C} \pm 3^{\circ}\text{C}$
- Soldering Time: 10 seconds max.

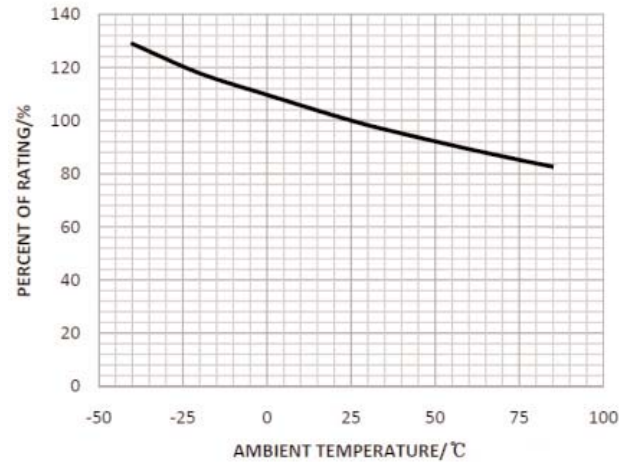
### Recommended Hand Solder Parameters

- Soldering Iron Tip Temperature:  $350^{\circ}\text{C} \pm 5^{\circ}\text{C}$
- Heating Time: 5 seconds max.

### Operating Temperature Range

- $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  (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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