

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 _n	2.1I _n	2.75I _n		4I _n		10I _n	
	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 max voltage			Typical DC cold resistance Ω ³	Typical voltage drop (mV) ⁴	Typical value I ² t (A ² s) ⁵	Agency approvals				
				250 Vac	Max Volts	400 Vdc				250 Vac			cURus ⁷	
		AC	DC							TUV ¹	CCC ⁶	PSE/JET		
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
S505H-10-R	250	500	400	1500	100	1500	0.006	72	349.5	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. (500 mA -5 A @ 600Vac, 6.3 A - 10 A @ 500 Vac)
- 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 I²t: Measured at 10I_n 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 (500 mA - 10 A)
- CCC Approval: 500 mA - 10 A, Cert. No.: 2010010207395946
- TUV Approval: 2 A - 10 A, Cert. No.: R50297821
- PSE Approval: 1 A - 5 A, Cert. No.: JET1641-31003-1017
6.3 A - 10 A, Cert. No.: JET1641-31003-2001

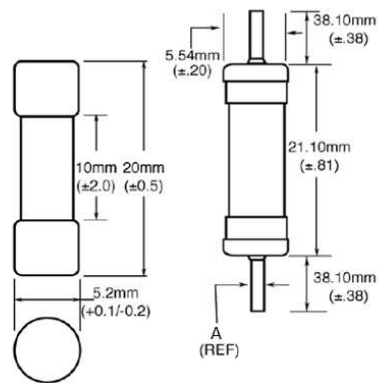
S505H-V-XXX-R (Axial Leads)

- PSE Approval: 1 A - 5 A, Cert. No.: JET1641-31003-1018;
6.3 A - 10 A, Cert. No.: JET1641-31003-2002
- cURus approval: Guide JFHR2, File E56412 and Guide JFHR8, File E56412 (500 mA - 10 A)
- CCC Approval: 500 mA - 10 A, Cert. No.: 2010010207395946



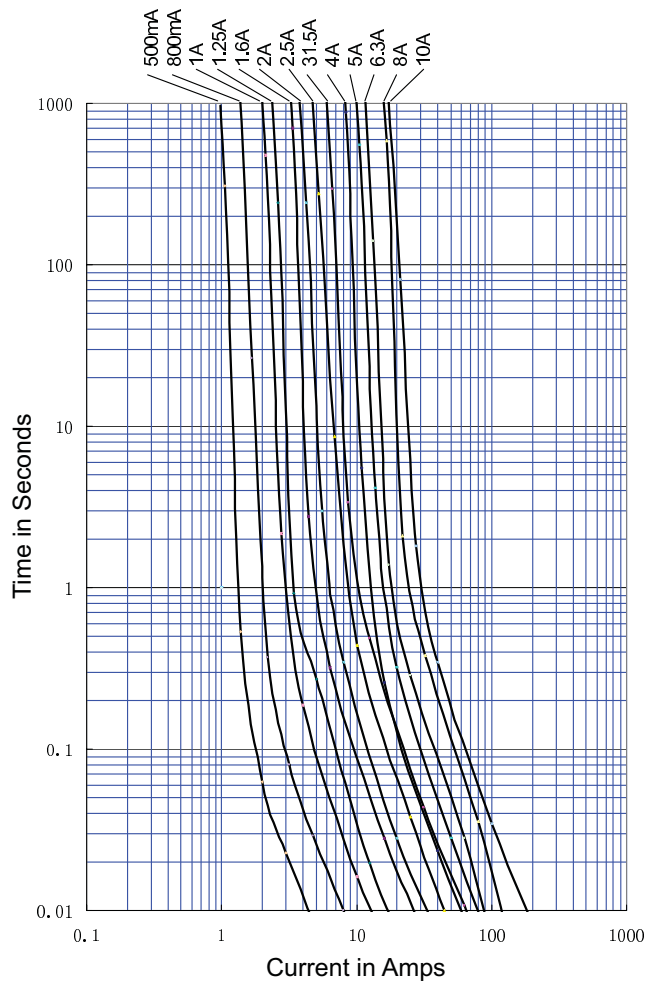
Powering Business Worldwide

Dimensions - mm

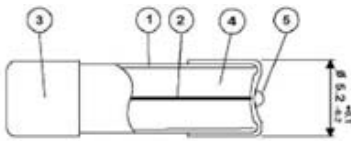


A (ref): 0.65 mm (0.5 A - 6.3 A), 0.80 mm (8 A-10 A)

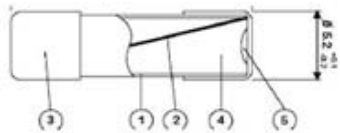
Time-Current Curves



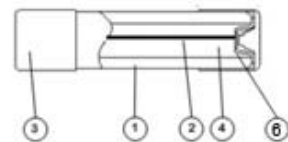
Construction



500-800mA

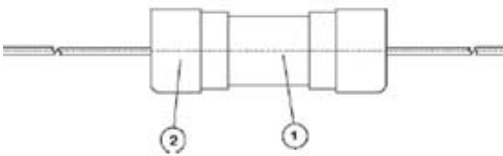


1-1.6 Amps



2 Amps & Above

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

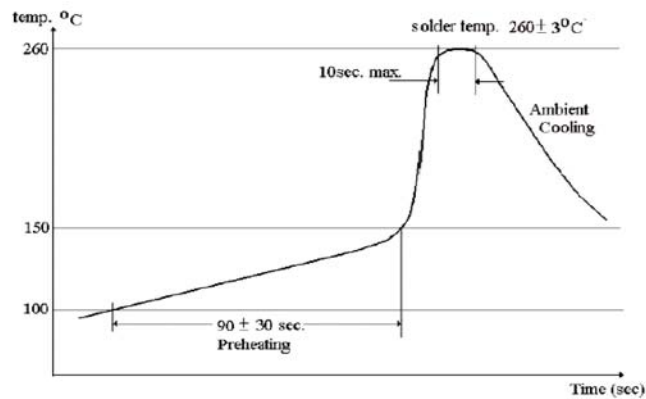


Axial Leaded Versions

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

Wave Soldering Parameters (axial lead only)

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



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

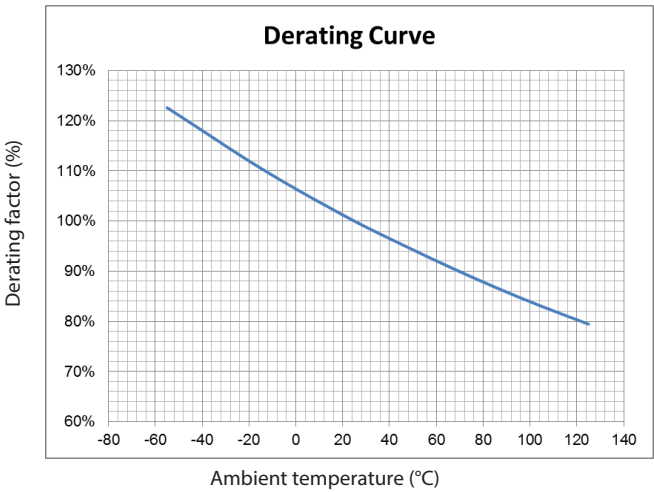
Recommended Hand Solder Parameters

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

Operating Temperature Range

- -55 °C to +125 °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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[S505H-V-3.15-R](#)