Effective December 2019 Supersedes June 2017



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									
	1.5l _n	2.1I _n	2.75l _n		4l _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	

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

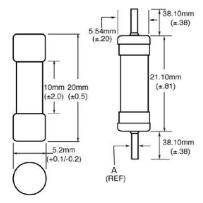
Specifications

				Interrupting rating (A)		Typical	Typical						
	Voltage					DC cold	voltage	Typical	Agency approvals			S	
Catalog	rating	rating		250 Max 400		resistance	drop	value	250 Vac]		
number	Vac	AC	DC	Vac	Volts	Vdc	Ω^3	(mV)*	I2t (A2s)5	TUV⁵	CCC	PSE/JET	cURus
S505H-500-R	250	600	400	1500	100	1500	0.507	295	0.188				х
S505H-800-R	250	600	400	1500	100	1500	0.237	189	0.632				Х
S505H-1-R	250	600	400	1500	100	1500	0.14	153	1.28			Х	Х
S505H-1.25-R	250	600	400	1500	100	1500	0.108	150	2.22			Х	Х
S505H-1.6-R	250	600	400	1500	100	1500	0.07	125	6.78			Х	Х
S505H-2-R	250	600	400	1500	100	1500	0.055	128	11.44	Х	X	Х	Х
S505H-2.5-R	250	600	400	1500	100	1500	0.04	126	24.23	Х	X	Х	Х
S505H-3.15-R	250	600	400	1500	100	1500	0.031	121	43.55	Х	X	Х	Х
S505H-4-R	250	600	400	1500	100	1500	0.019	90	38.45	Х	X	X	Х
S505H-5-R	250	600	400	1500	100	1500	0.015	89	71.3	X	X	X	Х
S505H-6.3-R	250	500	400	1500	100	1500	0.011	80	111.4	Х	Х	Х	Х
S505H-8-R	250	500	400	1500	100	1500	0.007	76	228.2	Х		Х	Х
S505H-10-R	250	500	400	1500	100	1500	0.006	72	349.5	Х		Х	X

- $1. \ \, \text{Max. voltage rating: Base on the breaking capacity test according to UL}.$
- 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 I^2t : Measured at 10In DC
- 6. Does not apply to axial leaded versions.
- 7. 600/500 Vac, 400 Vdc.

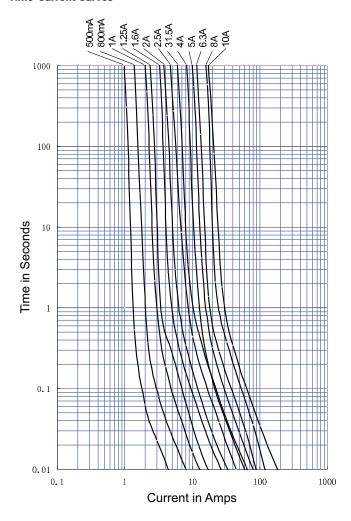


Dimensions - mm

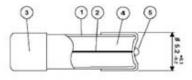


A (ref): 0.65 mm (0.5 A - 6.3 A), 0.80 mm (8 A-10 A)

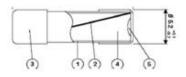
Time-Current Curves



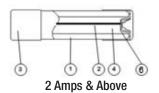
Construction



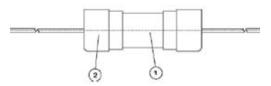
500-800mA



1-1.6 Amps



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

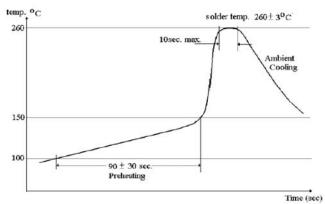


Axial Leaded Versions

- 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

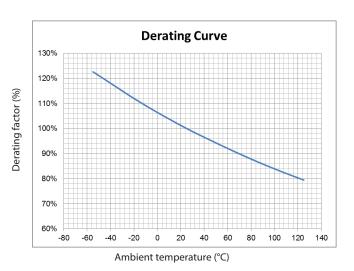
• Soldering Iron Tip Temperature: +350°C \pm 5°C

· 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-	BK1- 1000 fuses packed into a poly bag					
TR2-	1500 axial leaded fuses on tape and reel					
	Option Code					
Option Code	Option Code Description					
-V	-V Axial leads – copper tinned wire with nickel plated brass end caps					
-R	-R RoHS compliant version					

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