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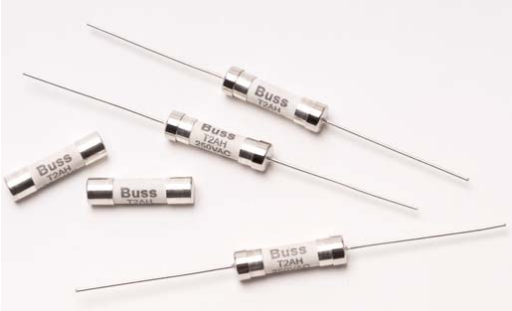
S505H

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



Applications

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

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								
	$1.5I_n$	$2.1I_n$	$2.75I_n$		$4I_n$		$10I_n$	
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

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)

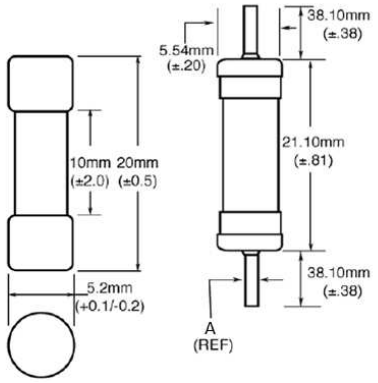
- PSE Approval: 1A-5A, Cert. No.: JET1641-31003-1010; 6.3A-10A, Cert. No: JET1641-31003-1012
- cURus approval: Guide JFHR2, File E56412 and Guide JFHR8, File E56412

Specifications

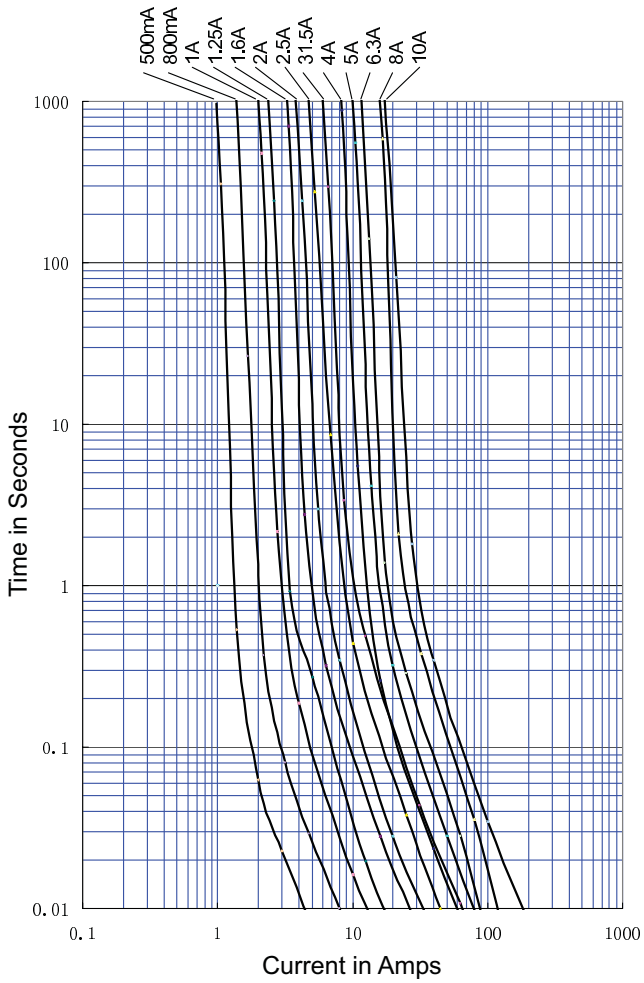
Catalog Number	Voltage Rating Vac	Max. Voltage Rating[1] AC	Max. Voltage Rating[1] DC	Interrupting Rating (A)[2] Under 250 Vac	Max Volts	Under 400 Vdc	Typical DC Cold Resistance Ω[3]	Typical Voltage Drop (mV)[4]	Typical Value I^2t (A^2s)[5]	Agency Approvals 250Vac TUV	CQC	CCC[6]	PSE/JET	cURus[7]
S505H-500-R	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 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^2t: Measured at 10In DC
6. Does not apply to axial leaded versions.
7. 600/500 Vac, 400 Vdc.

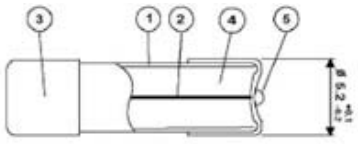
Dimensions - mm



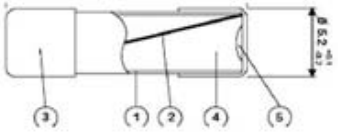
Time-Current Curves



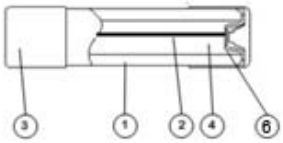
Construction



500-800mA

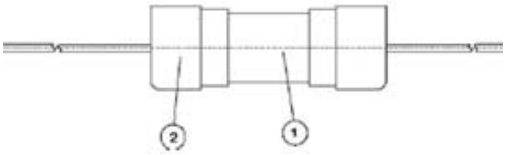


1-1.6 Amps



2 Amps & Above

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

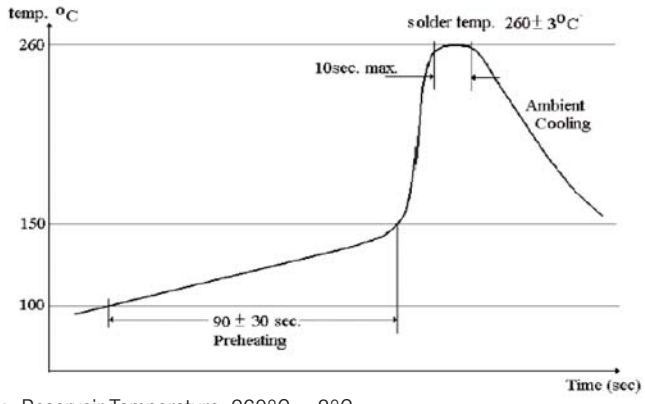


Axial Leaded Versions

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

Wave Soldering Parameters

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



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

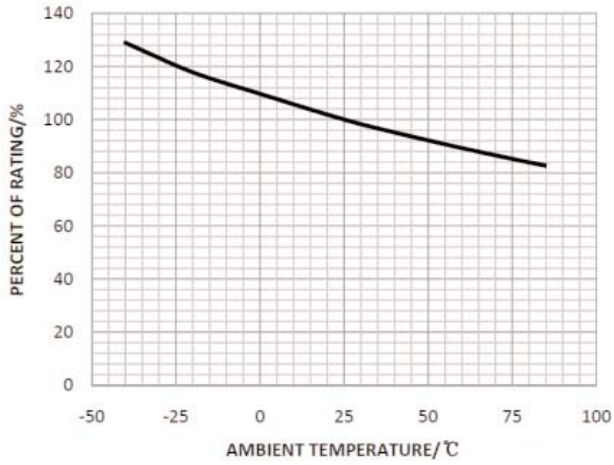
Recommended Hand Solder Parameters

- 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

Eaton
Electronics Division
1000 Eaton Boulevard
Cleveland, OH 44122
United States
www.eaton.com/electronics

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