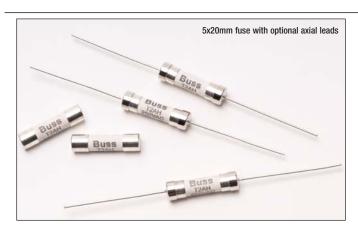


400Vdc/500-600Vac Time-Delay 5x20mm Fuses S505H Series









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

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: <u>T</u>	R2-	S505H	<u>-V</u>	-2	-R
Package Code Prefix ——					
Series Number ————					
Option Code —					
Fuse Amps ————					
RoHS Compliance ———					

Ordering

Specify product by package code prefix and option code.

Specifications

							Typical	Typical						
	Voltage	Max.	Voltage	Interruptii	ng Rating (A) ² Under	DC Cold	Voltage	Typical	Agency Approvals				
Catalog	Rating	Ra	ting ¹	250	Max	400	Resistance	Drop	Value	250Vac				
Number	Vac	AC	DC	Vac	Volts	Vdc	Ω^3	(mV)⁴	I²t (A²s)⁵	TUV ⁶	CQC6	CCC ₆	PSE/JET	cURus ⁷
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				Χ	Х
S505H-1.25-R	250	600	400	1500	100	1500	0.108	150	2.22				Χ	Х
S505H-1.6-R	250	600	400	1500	100	1500	0.07	125	6.78				Χ	Х
S505H-2-R	250	600	400	1500	100	1500	0.055	128	11.44	Х		Χ	Χ	Х
S505H-2.5-R	250	600	400	1500	100	1500	0.04	126	24.23	Х		Χ	Х	Х
S505H-3.15-R	250	600	400	1500	100	1500	0.031	121	43.55	Х		Χ	Χ	Х
S505H-4-R	250	600	400	1500	100	1500	0.019	90	38.45	Х		Χ	Χ	Х
S505H-5-R	250	600	400	1500	100	1500	0.015	89	71.3	Х		Χ	Χ	Х
S505H-6.3-R	250	500	400	1500	100	1500	0.011	80	111.4	Х		Χ	Χ	Х
S505H-8-R	250	500	400	1500	100	1500	0.007	76	228.2	Х	Χ		Χ	Х
S505H-10-R	250	500	400	1500	100	1500	0.006	72	349.5	Χ	Χ		Χ	Х

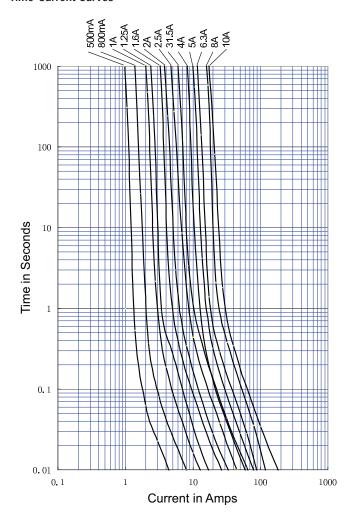
- 1. Max. Voltage rating: Base on the breaking capacity test according to UL.
- Breaking Capacity of 250VAC/1500A is tested by all agency approvals, test condition is 250Vac, PF: 0.7-0.8.
 - Breaking Capacity of Max. voltage is tested by UL, PF:1.
 - Breaking Capacity Test of DC is tested by UL under Capacitor Bank 4800mF (for 400V, 1500A), 2400mF (for 400V, 500A).
- 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 10In DC
- 6. Does not apply to axial leaded versions.
- 7. 600/500Vac, 400Vdc.



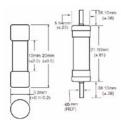


Electrical Characteristics								
	1.5l _n	2.11 _n	2.7	5I _n	4I _n		10I _n	
Amps	Min min.	Max min.	Min ms	Max s	Min ms	Max s	Min ms	Max ms
<1A	>60	<30	>250	<80	>50	<5	>5	<150
1A-3.15A	>60	<30	>750	<80	>95	<5	>10	<150
4A-6.3A	>60	<30	>750	<80	>150	<5	>10	<150
8A-10A	>30	<30	>750	<80	>150	<5	>10	<150

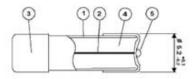
Time-Current Curves



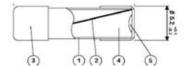
Dimensions - mm



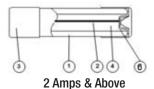
Construction



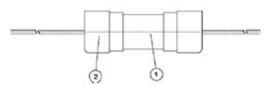
500-800mA



1-1.6 Amps



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



Axial Leaded Versions

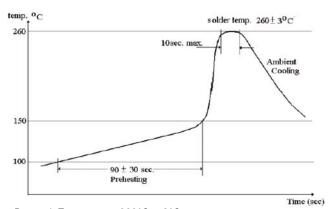
- 1. S505H-XXX-R
- 2. Axial Leaded Cap

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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

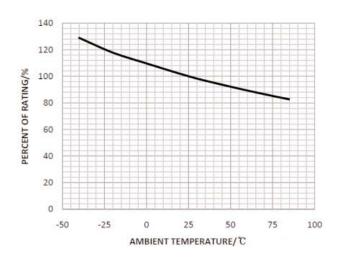
• Soldering Iron Tip Temperature: 350°C ± 5°C

• 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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