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PRODUCT DATASHEET

Surface Mount Fuse

0449 TIME-LAG FUSE



Descriptions

0449 series are Time-lag square Surface Mount fuses, Ceramic tube/end cap constructions, For protecting instruments, power supply devices and telephone sets etc.

Features

- One time positive disconnect
- Time-Lag for excessive current
- Low temperature derating
- Tape and Reel for automatic placement
- Wide range of current rating available
- Operating temperature:- 55 °C to +125 °C
- Conflict free metals
- RoHS, REACH compliant and Halogen-Free

Applications

- | | | | |
|---------------------------|----------------------|-------------------------|------------------------|
| • LED lighting | • Portable Device | • Storage system | • Digital camera |
| • Notebook PC | • Power supply | • Telecom system | • Office equipment |
| • Battery devices | • Networking devices | • Wireless base station | • Automotive devices |
| • LCD/PDP devices | • PC server | • White goods | • Medical equipment |
| • LCD backlight in verter | • Cooling fan system | • Game console | • Industrial equipment |

Electrical Characteristics

Pre-Arcing Time / Current Characteristics:

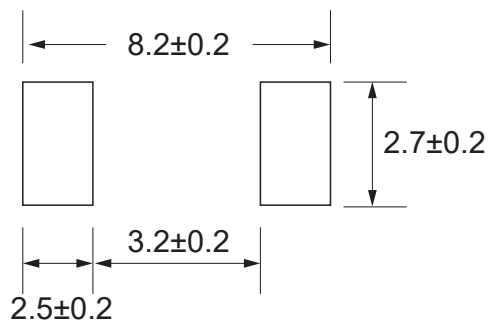
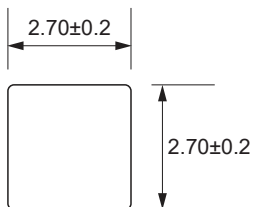
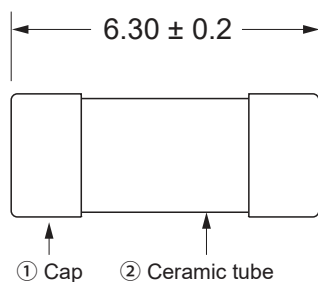
% of Ampere Rating(In)	Opening Time
125%*In	60 min Min
200%*In	2 min Max
1000%*In	10 ms ~100 ms

Performance Specification I

Part Number	Rated Current (A)	Voltage Rating(V)	Interrupting Rating	Max Voltage Drop(mV)	I ² t Melting Integral (A ² sec)
0449.250JT	0.25	250	50A@250Vac 100A@125Vac	240	0.243
0449.315JT	0.315			220	0.312
0449.500JT	0.50			284	0.616
0449.630JT	0.63			175	0.825
0449.800JT	0.80			160	1.601
0449001.JT	1.00			170	1.830
04491.25JT	1.25			130	1.953
044901.6JT	1.60			120	4.864
0449002.JT	2.00			127	7.296
044902.5JT	2.50			100	12.768
04493.15JT	3.15			81	22.496
0449004.JT	4.00			100	29.792
0449005.JT	5.00			88	41.344
044906.3JT	6.30			100	71.136
0449007.JT	7.00			100	71.136
0449008.JT	8.00	125	100A@125Vac	100	89.984
0449010.JT	10.0			95	183.616
0449012.JT	12.0			90	219.203
044912.5JT	12.5			85	226.718
0449015.JT	15.0			85	291.384
0449020.JT	20.0	72	500A@72Vac	85	291.384
0449025.JT	25.0			140	2470.0
0449030.JT	30.0			180	5814.0

Dimensions and Structure

- Outline Drawing and dimensions (unit : mm)



Recommended pad layout

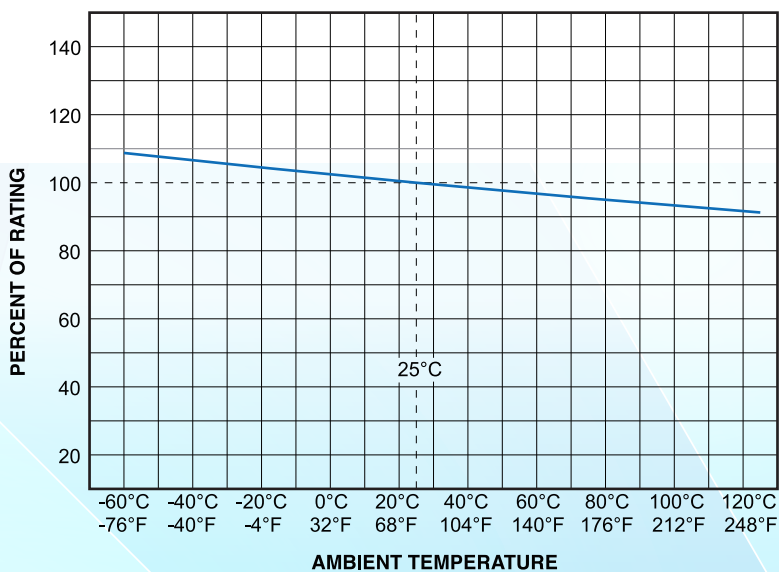
- Material Details:

Component	Material
End caps	Ag- plated copper
Body	Non-Transparent Square Ceramic Tube
Fuse element	Alloy
Solder	Solder wire(Sn 99.3% Cu 0.7%)

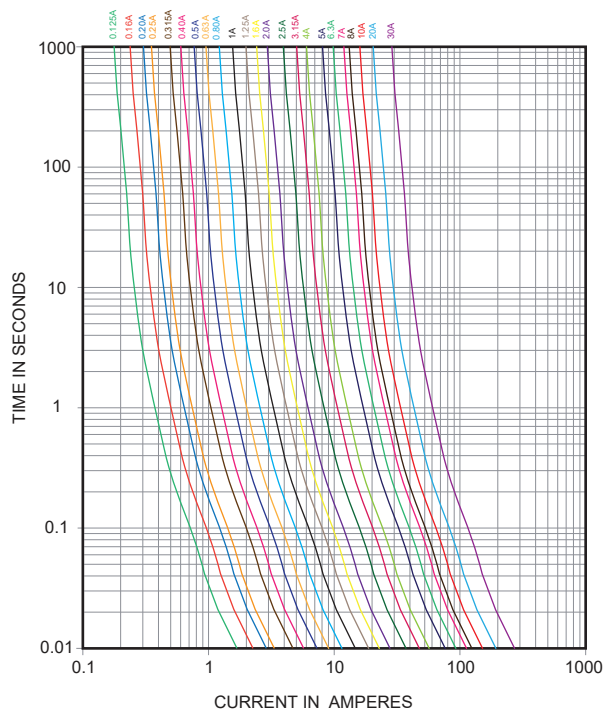
Environmental Characteristic

- Company operating temperature of the environment more than 25+/-5°C, in the selection of fuse specifications, it needs to consider the impact of the operating environment of the temperature fuse. Photo: temperature derating curve.

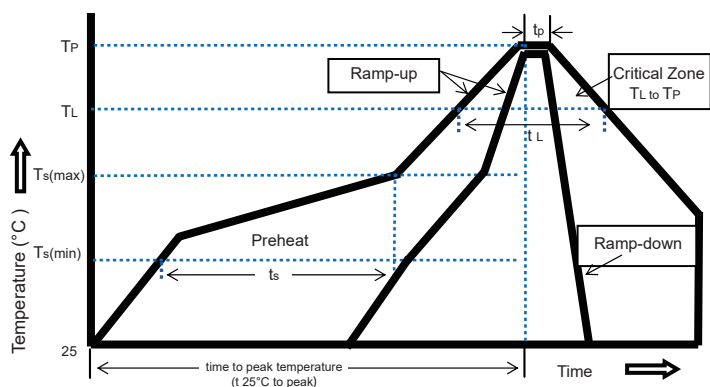
Temperature Derating Curve



Average Time-Current Curve



Recommended Soldering Parameters



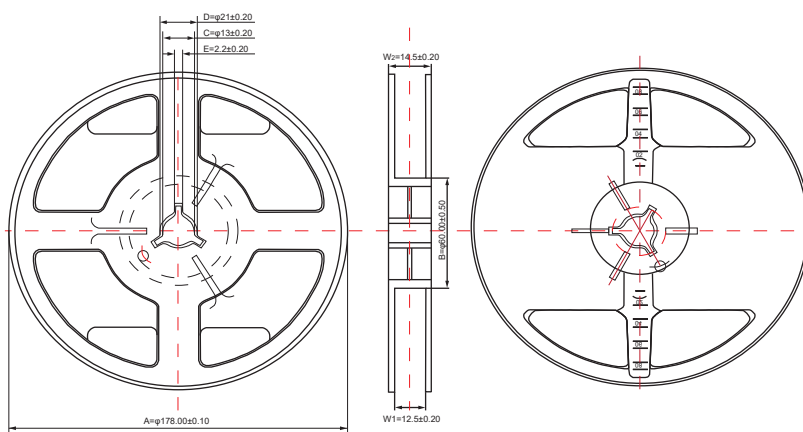
Reflow Condition		Pb-Free assembly
Average ramp-up rate (Ts(max) to Tp)	Temperature Min (Ts(min))	150°C
	Temperature Max (Ts(max))	200°C
	Time (Min to Max)(ts)	60~120 seconds
Reflow	Temperature (TL)	220°C
	Time Max (tL)	60 seconds
Peak Temperature (Tp)		260°C max
Ramp-down Rate		5°C/second max
Time 25°C to peak Temperature (Tp)		8 minutes max

Soldering Method	Parameter
Wave solder	260°C, 5 s max
Hand-Solder	360°C, 1 s max

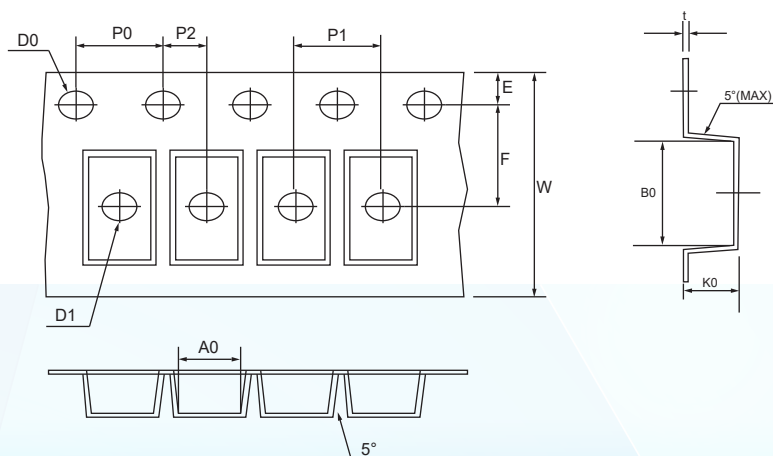
Storage conditions	operating Temperature
Temperature	5°C~35°C
Humidity	25%~85%
Storage time	6 months
- 40 °C to +85 °C	

Packing

No.	Quantity &Packaging Code
0449	1500 fuses/reel (12mm tape-and-reel on a 7 inch (178mm) reel per EIA Standard 481)

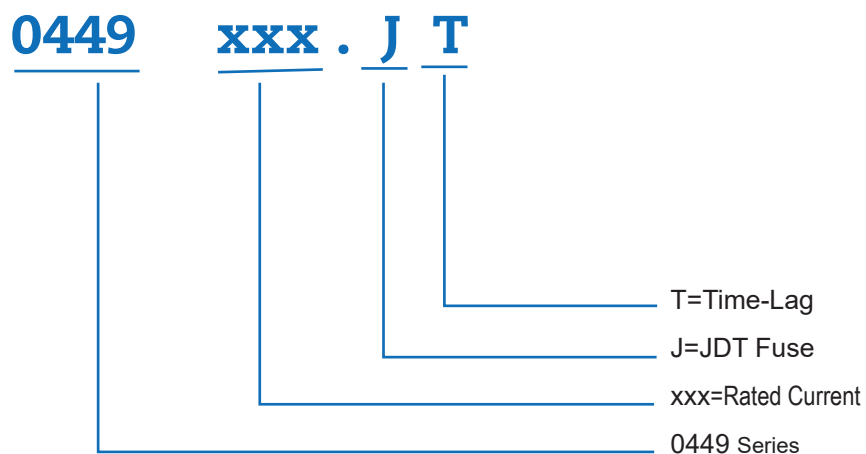


Item	A	B	C	D	E	W1	W2
Spec.(mm)	178 ± 0.10	60 ± 0.50	13 ± 0.20	21 ± 0.20	2.2 ± 0.20	12.5 ± 0.20	14.5 ± 0.20



Item	A0	B0	D0	D1	E	F
Spec.(mm)	2.70 ± 0.10	6.4 ± 0.10	1.5 ± 0.10	1.50 ± 0.25	1.75 ± 0.10	5.50 ± 0.10
Item	K0	P0	P1	P2	W	t
Spec.(mm)	2.70 ± 0.10	4.00 ± 0.10	4.00 ± 0.10	2.0 ± 0.10	12.00 ± 0.15	0.25 ± 0.05

Part Numbering



OTHERS

- If in use beyond the requirements of the specifications, must pass through the mutual confirmation !
- If the specification is not appropriate, must through consultation between the two sides and by the company to modify.
- It could be in conformance with another file which made by our company.