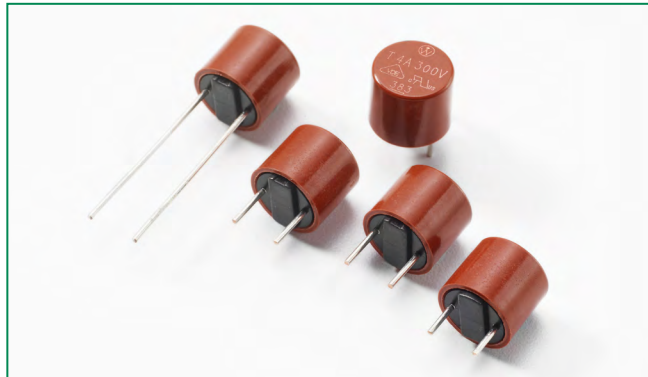


383 Series, TR5® Time-Lag Fuse



Description

The 383 series are TR5® time-lag 300V rated fuses and designed in accordance to IEC60127-3.

Features

- Halogen free, Lead-free and RoHS compliant
- Reduced PCB space requirements
- Direct solderable or plug-in versions
- Internationally approved
- Low internal resistance
- Shock safe casing
- Vibration resistant

Applications

- Electronic Ballast

Additional Information



Datasheet



Resources



Samples

Agency Approvals

Agency	Agency File Number	Ampere Range
	40022712	4A - 5A
	JET1896-31007-2001 JET1896-31007-1006	1A - 5A 6.3A - 10A
	E67006	1A - 10A

Electrical Characteristics for Series

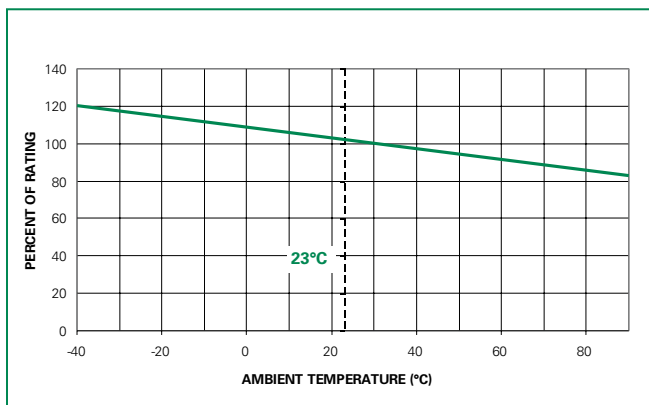
% of Ampere Rating	Opening Time	
	1A - 6.3A	8A - 10A
150%	1 Hour, Min.	1 Hour, Min.
210%	2 Minutes, Max.	300 s, Max.
275%	400 ms, Min. ; 10 s, Max.	1 s, Min. ; 20 s, Max.
400%	150 ms, Min. ; 3 s, Max.	150 ms, Min. ; 3 s, Max.
1000%	20 ms, Min. ; 150 ms, Max.	20 ms, Min. ; 150 ms, Max.

Electrical Characteristics Specifications by Item

Amp Code	Rated Current	Max Voltage Rating	Breaking Capacity	Nominal Cold Resistance (Ohms)	Voltage Drop 1.0xI _N max. (mV)	Power Dissipation 1.5xI _N max. (mW)	Melting Integral 10xI _N max. (A²s)	Agency Approvals		
1100	1.00 A	300 V	100A@300VAC 50A@320VAC	0.0625	100	400	4.85		X	X
1125	1.25 A	300 V		0.0500	95	465	6.88		X	X
1160	1.60 A	300 V		0.0377	90	490	12.67		X	X
1200	2.00 A	300 V		0.0280	85	670	17.80		X	X
1250	2.50 A	300 V		0.0215	80	750	29.69		X	X
1315	3.15 A	300 V		0.0176	75	900	45.35		X	X
1400	4.00 A	300 V	50A@320VAC 100A@250VAC	0.0138	70	1200	72.00	X	X	X
1500	5.00 A	300 V		0.0108	65	1250	121.25	X	X	X
1630	6.30 A	300 V		0.0076	65	1400	148.84		X	X
1800	8.00 A	300 V		0.0059	63	1600	233.60		X	X
2100	10.00 A	300 V		0.0042	57	1600	365.00		X	X

Note: 1.00 means the number one with two decimal places. 1,000 means the number one thousand.

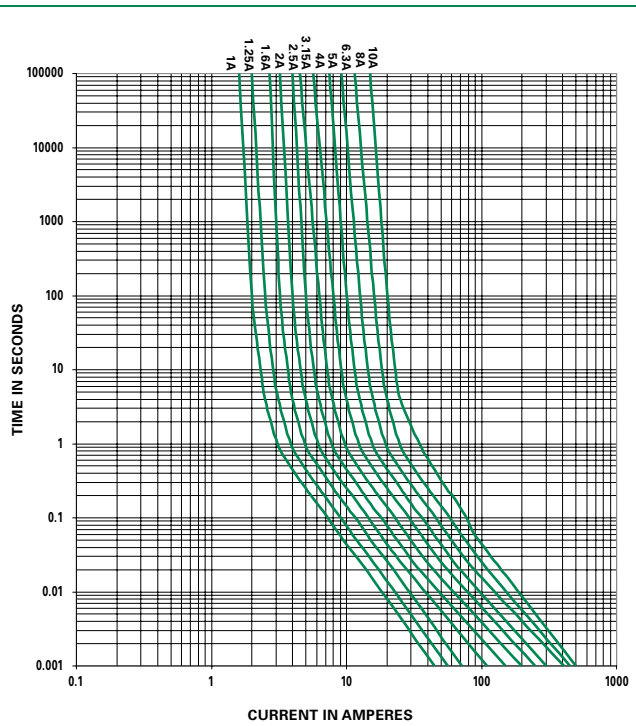
Temperature Re-rating Curve



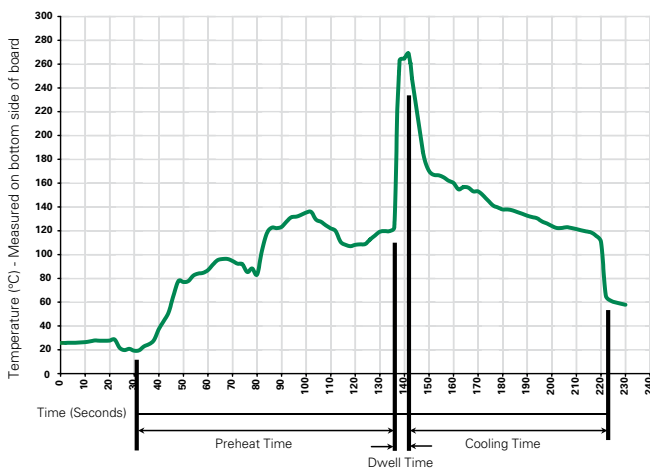
Note:

1. Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

Average Time Current Curves



Soldering Parameters - Wave Soldering



Recommended Process Parameters:

Wave Parameter	Lead-Free Recommendation
Preheat: (Depends on Flux Activation Temperature)	(Typical Industry Recommendation)
Temperature Minimum:	100°C
Temperature Maximum:	150°C
Preheat Time:	60-180 seconds
Solder Pot Temperature:	260°C Maximum
Solder Dwell Time:	2-5 seconds

Recommended Hand-Solder Parameters:

Solder Iron Temperature: 350°C +/- 5°C
Heating Time: 5 seconds max.

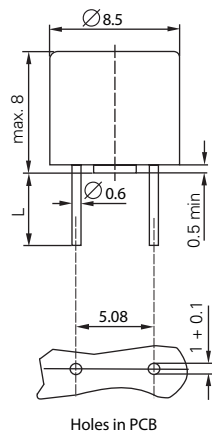
Note: These devices are not recommended for IR or Convection Reflow process.

Product Characteristics

Materials	Base/Cap: Brown Thermoplastic Polyamide PA 6.6, UL 94 V-0 Round Pins: Copper, Tin-plated
Lead Pull Strength	10 N (IEC 60068-2-21)
Solderability	260°C, ≤ 3s. (Wave) 350°C, ≤ 1s. (Soldering Iron)
Soldering Heat Resistance	260°C, 10s. (IEC 60068-2-20) 350°C, 3s. (Soldering Iron)

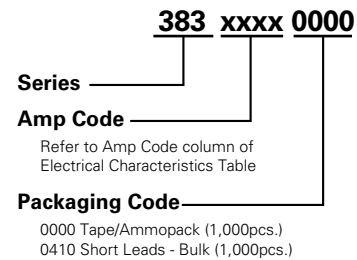
Operating Temperature	-40°C to +85°C (consider re-rating)
Climatic Category	-40°C to +85°C /21 days (IEC 60068-1,-2-1,-2-2,-2-78)
Stock Conditions	+10°C to +60°C RH ≤ 75% yearly average, without dew, maximum value for 30 days-95%
Vibration Resistance	24 cycles at 15 min. each (IEC 60068-2-6) 10 - 60 Hz at 0.75 mm amplitude 60 - 2000 Hz at 10 g acceleration

Dimensions



Long Leads (L=18.8mm)
Short Leads (L=4.3mm)

Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
383 Series				
Tape & Ammopack	N/A	1,000	0000	N/A
Short Leads	N/A	1,000	0410	N/A

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Littelfuse:

<u>38218000430</u>	<u>38221000000</u>	<u>38221000410</u>	<u>38221000430</u>	<u>38312500000</u>	<u>38312500410</u>	<u>38313150000</u>	
<u>38313150410</u>	<u>38314000410</u>	<u>38315000410</u>	<u>38316300000</u>	<u>38312000410</u>	<u>38314000000</u>	<u>38316300410</u>	<u>38315000000</u>
<u>38312000000</u>	<u>38311600410</u>	<u>38311000000</u>	<u>38311000410</u>	<u>38311250000</u>	<u>38311250410</u>	<u>38311600000</u>	