

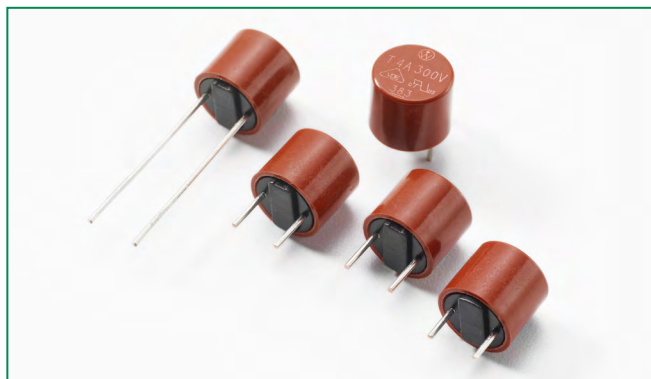
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### 383 Series, TR5® Time-Lag Fuse



#### 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

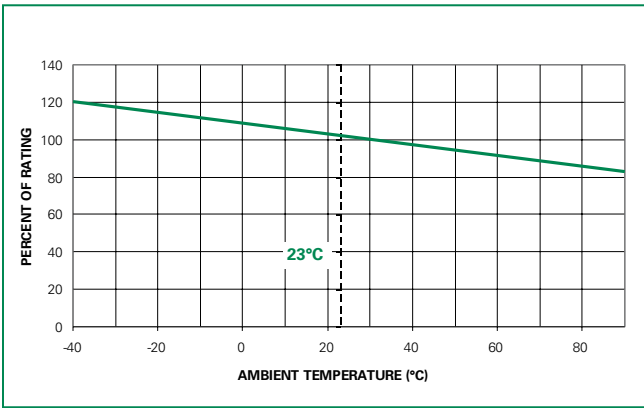
% of Ampere Rating	Opening Time	
	1A - 6.3A	8A - 10A
150%	1 Hour, <b>Min.</b>	1 Hour, <b>Min.</b>
210%	2 Minutes, <b>Max.</b>	300 s, <b>Max.</b>
275%	400 ms, <b>Min.</b> ; 10 s, <b>Max.</b>	1 s, <b>Min.</b> ; 20 s, <b>Max.</b>
400%	150 ms, <b>Min.</b> ; 3 s, <b>Max.</b>	150 ms, <b>Min.</b> ; 3 s, <b>Max.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

#### Electrical Characteristics Specifications by Item

Amp Code	Rated Current	Max Voltage Rating	Breaking Capacity	Nominal Cold Resistance (Ohms)	Voltage Drop 1.0xI <sub>N</sub> max. (mV)	Power Dissipation 1.5xI <sub>N</sub> max. (mW)	Melting Integral 10xI <sub>N</sub> max. (A <sup>2</sup> s)	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		0.0138	70	1200	72.00	X	X	X
1500	5.00 A	300 V	50A@320VAC 100A@250VAC	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

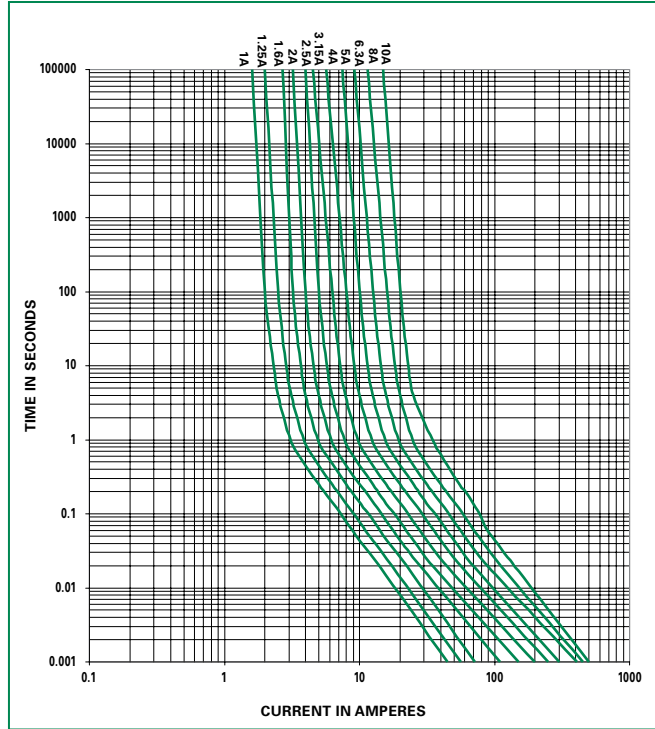
Note: 1.00 means the number one with two decimal places. 1,000 means the number one thousand.

**Temperature Re-rating Curve**

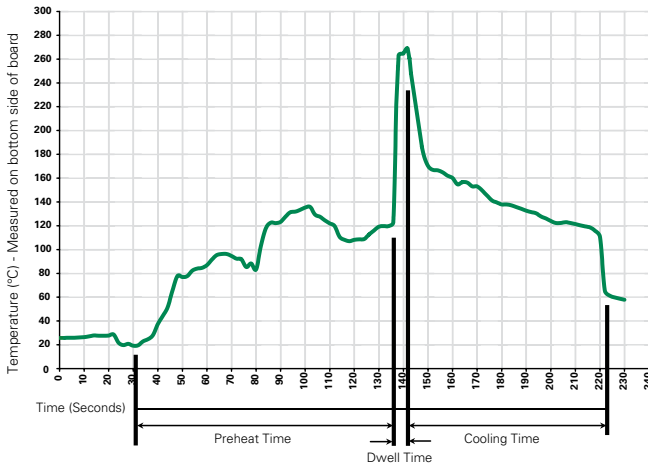


Note:  
1. Derating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

**Average Time Current Curves**



**Soldering Parameters - Wave Soldering**



**Recommended Process Parameters:**

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

**Recommended Hand-Solder Parameters:**

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

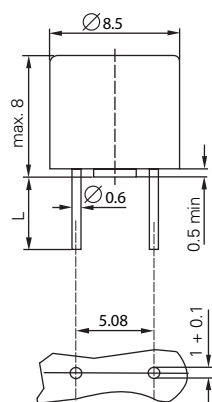
**Note: These devices are not recommended for IR or Convection Reflow process.**

### Product Characteristics

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

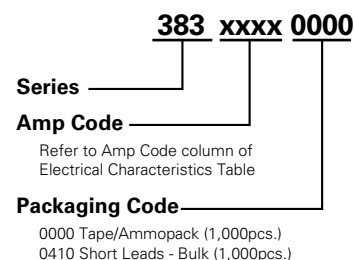
<b>Operating Temperature</b>	-40°C to +85°C (consider re-rating)
<b>Climatic Category</b>	-40°C to +85°C /21 days (IEC 60068-1,-2-1,-2-2,-2-78)
<b>Stock Conditions</b>	+10°C to +60°C RH ≤ 75% yearly average, without dew, maximum value for 30 days-95%
<b>Vibration Resistance</b>	24 cycles at 15 min. each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

### Dimensions



Holes in PCB  
 Long Leads (L=18.8mm)  
 Short Leads (L=4.3mm)

### Part Numbering System



### Packaging

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