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# Radial Lead Fuses

TR3 > Fast-Acting Fuse > 303 Series

## 303 Series, TR3, Fast-Acting Fuse



### Agency Approvals

Agency	Agency File Number	Ampere Range
	E67006	0.050A - 5A
	051378	0.050A - 5A

### Electrical Characteristics

% of Ampere Rating	Opening Time
200	60 Seconds, Maximum

### Description

The 303 Series are TR3, fast-acting type, 125V rated fuses designed in accordance to UL 248-14.

### Features

- Reduced PCB space requirements
- Direct solderable or plug-in versions
- Internationally approved
- Low internal resistance
- Shock safe casing
- Vibration resistant
- RoHS compliant, Lead-Free and Halogen-Free
- Available from 0.050A to 5A

### Applications

- Battery chargers
- Consumer electronics
- Power supplies
- Industrial controllers

### Additional Information



Datasheet



Resources



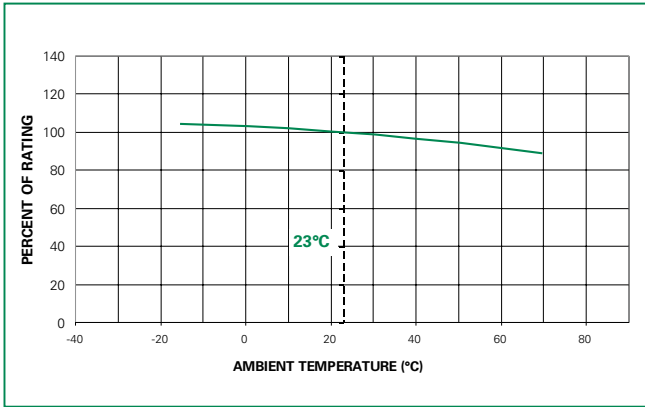
Samples

### Electrical Characteristics

Amp Code	Rated Current	Voltage Rating	Breaking Capacity	Nominal Cold Resistance (Ohms)	Voltage Drop $1.0 \times I_N$ max. (mV)	Power Dissipation $1.0 \times I_N$ max. (mW)	Melting Integral $10 \times I_N$ max. (A <sup>2</sup> s)	Approvals	
0050	50mA	125V	50A @ 125VAC 50A @ 63VDC	2.9203	800	40	0.00007	X	X
0063	63mA	125V		2.7400	780	50	0.00013	X	X
0080	80mA	125V		2.2300	730	60	0.0002	X	X
0100	100mA	125V		4.3800	700	70	0.0004	X	X
0125	125mA	125V		3.4605	650	85	0.0022	X	X
0160	160mA	125V		2.1687	600	100	0.0029	X	X
0200	200mA	125V		1.3500	550	110	0.0042	X	X
0250	250mA	125V		1.1500	500	125	0.0082	X	X
0315	315mA	125V		0.9645	450	145	0.015	X	X
0400	400mA	125V		0.8050	400	160	0.025	X	X
0500	500mA	125V		0.5320	380	190	0.042	X	X
0630	630mA	125V		0.1448	160	100	0.015	X	X
0800	800mA	125V		0.1023	155	125	0.025	X	X
1100	1.00A	125V		0.0830	150	155	0.039	X	X
1125	1.25A	125V		0.0644	145	185	0.059	X	X
1160	1.60A	125V		0.0520	140	225	0.11	X	X
1200	2.00A	125V		0.0400	130	260	0.17	X	X
1250	2.50A	125V		0.0307	125	315	0.23	X	X
1315	3.15A	125V		0.0262	120	380	0.45	X	X
1400	4.00A	125V		0.0178	110	440	1.0	X	X
1500	5.00A	125V	0.0131	105	525	1.5	X	X	

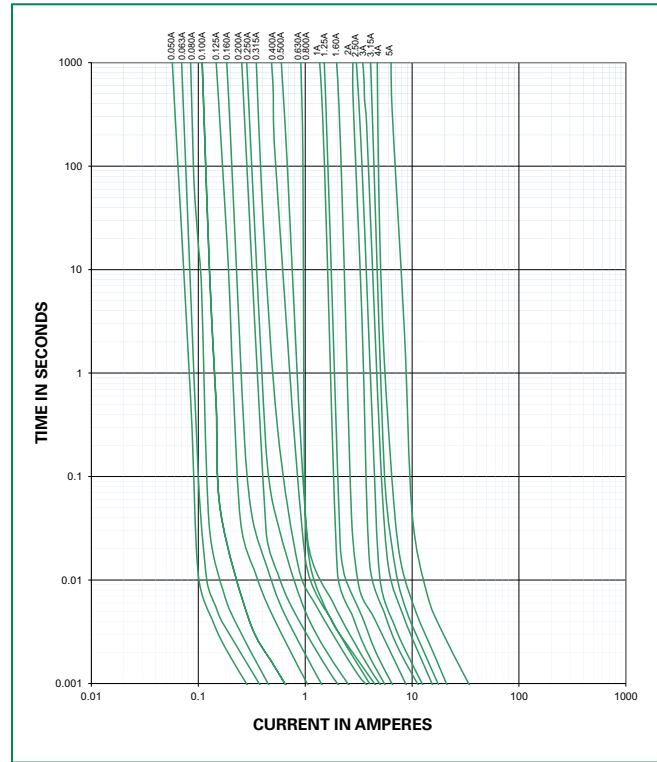
Note: 1.00 means the number one with two decimal places. 1,000 means the number one thousand.

**Temperature Re-rating Curve**

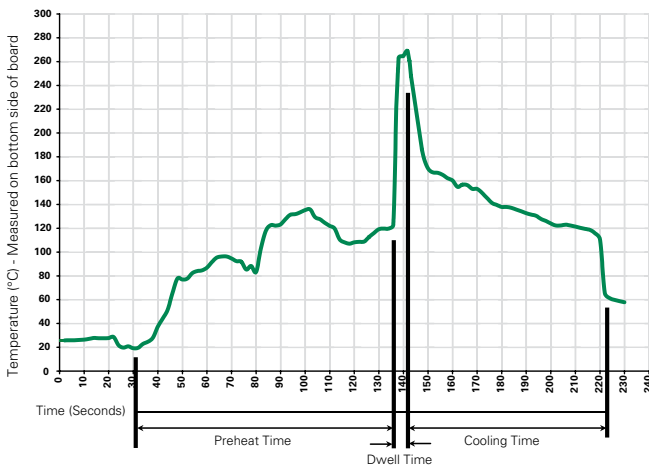


Note  
1. Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

**Average Time Current Curves**



**Soldering Parameters - Wave Soldering**



**Recommended Process Parameters:**

Wave Parameter	Lead-Free Recommendation
<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.

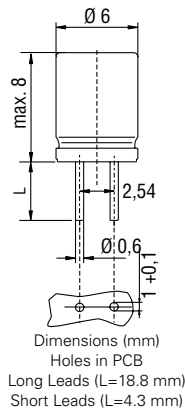
**Note: These devices are not recommended for IR or Convection Reflow process.**

### Product Characteristics

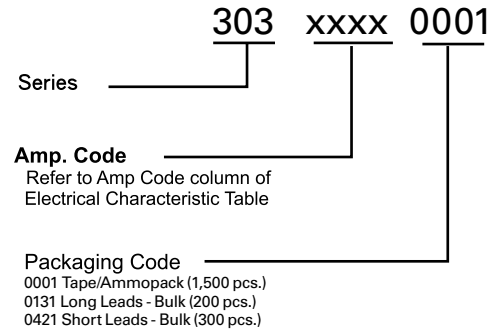
<b>Materials</b>	Base/Cap: Black Thermoplastic Base Polyamide PA 6.6, UL 94V-0 Brass, Nickel-plated Cap Round Pins: Copper alloy, Tin-plated
<b>Lead Pull Strength</b>	10 N (IEC 60068-2-21)
<b>Solderability</b>	260°C, ≤ 3s. (Wave) 350°C, ≤ 1s. (Soldering Iron)
<b>Soldering Heat Resistance</b>	260°C, 10s.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

<b>Operating Temperature</b>	-25°C to +70°C (consider de-rating)
<b>Climatic Category</b>	-25°C/+70°C/21 days (IEC 60068-1-3)
<b>Stock Conditions</b>	+10°C to +60°C RH, ≤75% yearly average, without dew
<b>Vibration Resistance</b>	24 cycles at 15 min. each (IEC 60068-6) 10 - 60 Hz at 0.75 mm amplitude 60 - 2000 Hz at 10 g acceleration

### Dimensions



### Part Numbering System



### Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Reel Size
<b>303 Series</b>				
Tape & Ammopack	N/A	1,500	0001	N/A
Long Leads	N/A	200	0131	N/A
Short Leads	N/A	300	0421	N/A