imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Radial Lead Fuses TR3 > Fast-Acting Fuse > 303 Series



303 Series, TR3, Fast-Acting Fuse

ROHS PO HF (St



Agency Approvals				
Agency	Agency File Number	Ampere Range		
(UL)	E67006	0.050A - 5A		
(Sfr)	051378	0.050A - 5A		

Electrical Characteristics		
% of Ampere Rating	OpeningTime	
200	60 Seconds, Maximum	

Electrical Characteristics

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
- Applications
- Battery chargers
- Consumer electronics
- Power supplies

• Vibration resistant

• RoHS compliant, Lead-

• Available from 0.050A

to 5A

Free and Halogen-Free

• Industrial controllers

Additional Information







Samples

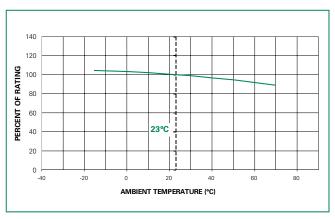
				Nominal Cold	Voltage	Power	Melting	Approvals	
Amp Code	Rated Current	Voltage Rating	Breaking Capacity	Resistance (Ohms)	Drop 1.0×I _N max. (mV)	Dissipation 1.0×I _N max. (mW)	Integral 10×I _N max. (A²s)		€
0050	50mA	125V		2.9203	800	40	0.00007	Х	Х
0063	63mA	125V		2.7400	780	50	0.00013	Х	Х
0080	80mA	125V		2.2300	730	60	0.0002	Х	Х
0100	100mA	125V		4.3800	700	70	0.0004	Х	Х
0125	125mA	125V		3.4605	650	85	0.0022	Х	Х
0160	160mA	125V		2.1687	600	100	0.0029	Х	Х
0200	200mA	125V		1.3500	550	110	0.0042	Х	Х
0250	250mA	125V		1.1500	500	125	0.0082	Х	Х
0315	315mA	125V		0.9645	450	145	0.015	Х	Х
0400	400mA	125V	50A @ 125VAC	0.8050	400	160	0.025	Х	Х
0500	500mA	125V		0.5320	380	190	0.042	Х	Х
0630	630mA	125V	50A @ 63VDC	0.1448	160	100	0.015	Х	Х
0800	800mA	125V		0.1023	155	125	0.025	Х	Х
1100	1.00A	125V		0.0830	150	155	0.039	Х	Х
1125	1.25A	125V		0.0644	145	185	0.059	Х	Х
1160	1.60A	125V		0.0520	140	225	0.11	Х	Х
1200	2.00A	125V		0.0400	130	260	0.17	Х	Х
1250	2.50A	125V		0.0307	125	315	0.23	Х	Х
1315	3.15A	125V		0.0262	120	380	0.45	Х	Х
1400	4.00A	125V		0.0178	110	440	1.0	Х	Х
1500	5.00A	125V		0.0131	105	525	1.5	Х	Х

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



Radial Lead Fuses TR3 > Fast-Acting Fuse > 303 Series

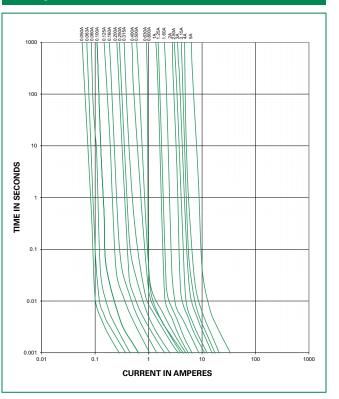
Temperature Re-rating Curve



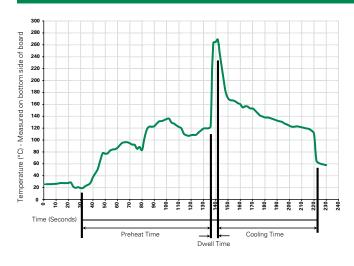
Note

 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.

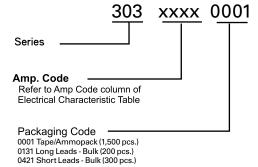


Product Characteristics

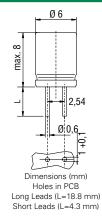
Materials	Base/Cap: Black Thermoplastic Base Polyamide PA 6.6, UL 94V-0 Brass, Nickel-plated Cap Round Pins: Copper alloy, Tin–plated		
Lead Pull Strength	10 N (IEC 60068-2-21)		
Solderability	260°C, \leq 3s. (Wave) 350°C, \leq 1s. (Soldering Iron)		
Soldering Heat Resistance	260°C, 10s. (IEC 60068-2-20)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

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

Part Numbering System



Dimensions



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Reel Size	
303 Series					
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	