

Time Delay | 0.063x0.032 inch Thick Film Chip Fuses

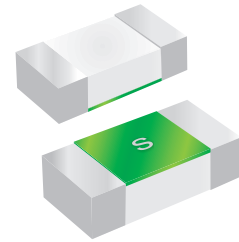
0603TD-Rxxx Series



0603TD Series are the fuses set the industry standard for performance, reliability and quality. The solder-free design provides excellent on-off and temperature cycling characteristics during use and also makes our SMD fuses more heat and shock tolerant than typical subminiature fuses.

Features

- Compatible with reflow and wave solder
- Excellent environmental integrity
- One time positive disconnect
- Lead Free and Halogen free material



Electrical Characteristics

Rated Current	1.0In	2.5In	3.0In	4.0In
250mA	4 hour minimum			5 sec maximum
500mA	4 hour minimum		5 sec maximum	
750mA	4 hour minimum	0.1sec - 5.0 sec		

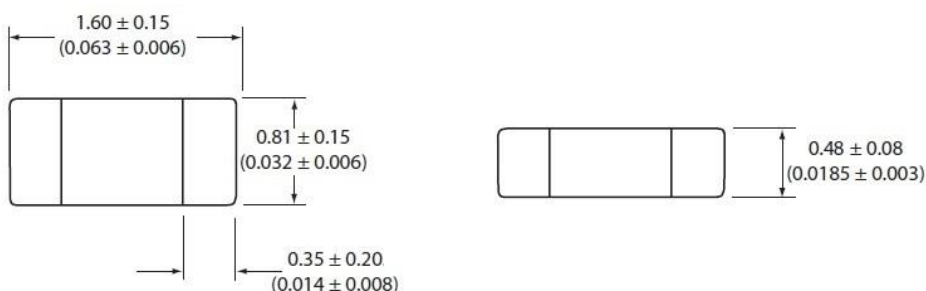
Specifications

Part No.	Rated Voltage DC	Rated Current (A)	Breaking Capacity (A)	Typical Cold Resistance (mOhms)	Typical Voltage Drop (mV)	Typical Pre-Arcing I ² t (A ² Sec)	Alpha Mark
0603TD-R250	32V	0.25	50A	2300	850	0.0006	D
0603TD-R500	32V	0.5	50A	580	460	0.003	F
0603TD-R750	32V	0.75	50A	400	450	0.02	G

- DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)
- DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25 degrees
- Typical Pre-arcing I²t are measured at 10In Current.

Dimension

Unit: mm/inch

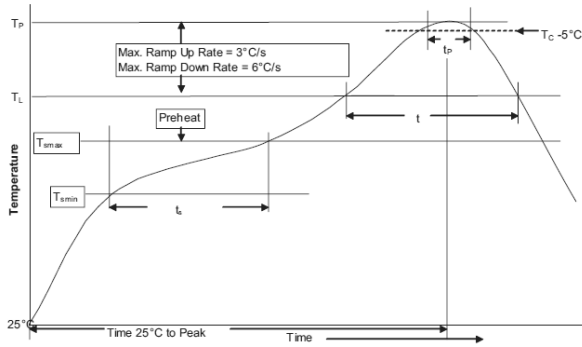


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Soldering Parameters



IR Reflow Profile

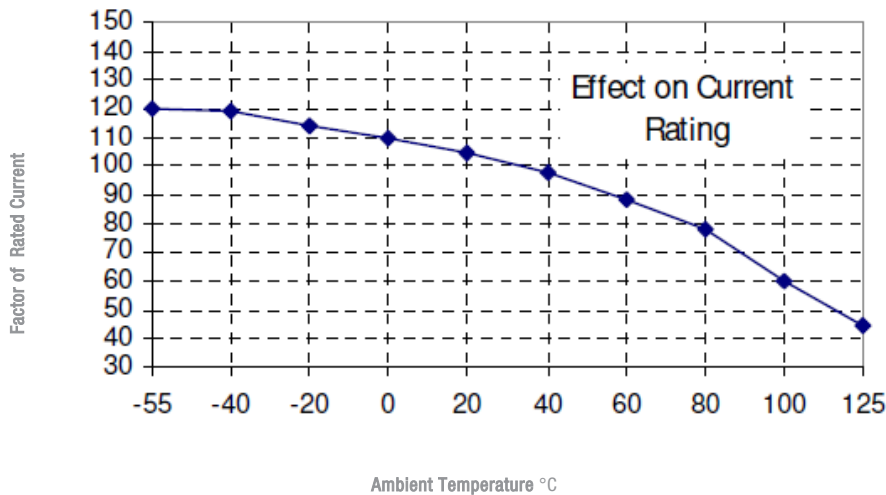
Preheat Heat	
Temperature min (T _{min})	150°C
Temperature max(T _{max})	200°C
Time (T _{min} to T _{max}) (ts)	60 -120 seconds
Average ramp-up rate (T _{max} to T _p)	3°C/second max.
Liquidous temperature (T _L)	217°C
Time at liquidous (t _L)	60 - 150 seconds
Peak temperature(T _p)	260°C
Time within 5°C of actual peak Temperature (t _p)	30 seconds
Average ramp-down rate (T _p to T _{max})	6°C/second max.
Time 25 °C to peak temperature	8 minutes max.

Wave Soldering: 260°C, 10 seconds max.

Infrared Reflow: 260°C, 30 seconds max.

Temperature Derating Curve

Normal ambient temperature: 23+/-3 C
 Operating temperature: -55 ~ 150 C, with proper correction factor applied



Packaging

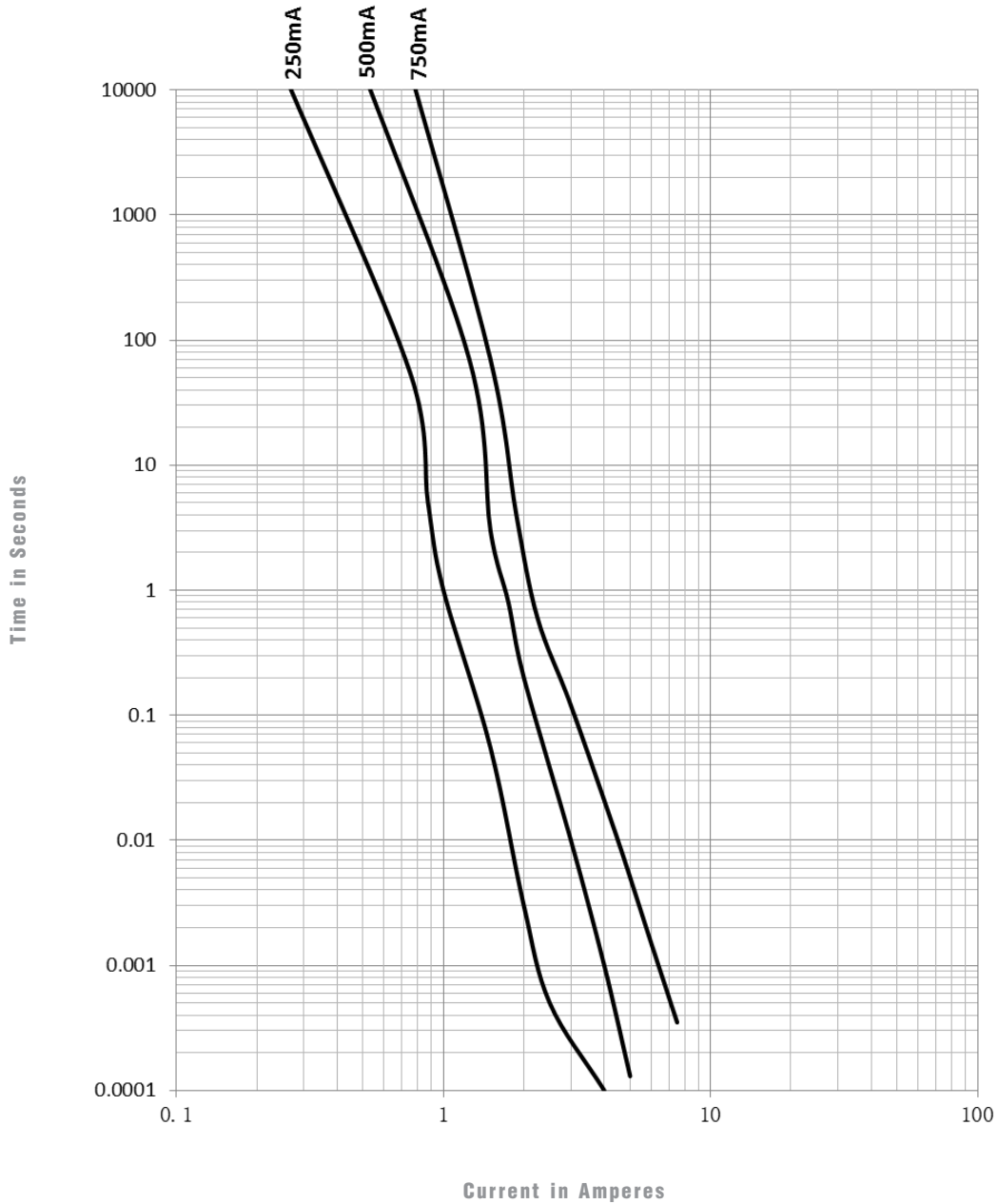
- Quantity: 5,000pcs
- 8mm wide tape on 178mm(7 inch) diameter reel -specification EIA Standard 481.

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Average Time Current Curves



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