2410 Time Delay SMD Fuses

2410TD Series

Descriptions

The 2410TD Series Time Delay SMD fuse has a ceramic body with wire-in-air design.

Electrical Characteristics

Amp Rating	% of Amp Rating	Opening Time
0.25~7.0A	100%	4 Hours Min.
	200%	< 120 Seconds

Features

- Rapid interruption of excessive current
- Compatible with reflow and wave soldering
- Ceramic body and silver plated copper terminal
- Excellent environmental integrity
- One time positive disconnect
- RoHS compliant
- Designed to UL 248-14

Specification

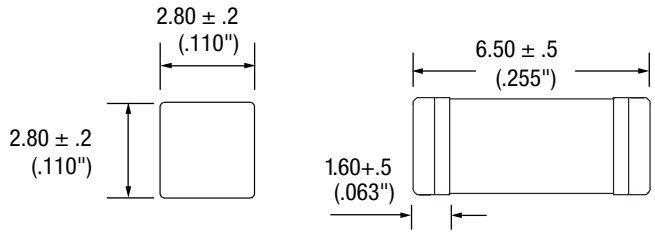
Product Code	Current Rating	Voltage Rating		Interrupting Rating	Resistance (ohms) Typ.	Typical Melting I^2t(A^2 Sec)	Typical Voltage Drop
		AC	DC				
2410TD-R250	250mA	125V	125V	50A@125VAC 50A@125VDC	0.770	0.06	280 mV
2410TD-R315	315mA	125V	125V		0.630	0.12	275 mV
2410TD-R400	400mA	125V	125V		0.478	0.27	250 mV
2410TD-R500	500mA	125V	125V		0.285	1.20	190 mV
2410TD-R630	630mA	125V	125V		0.190	1.07	160 mV
2410TD-R800	800mA	125V	125V		0.154	3.00	155 mV
2410TD-1A	1.0A	125V	125V		0.096	4.70	160 mV
2410TD-1.25A	1.25A	125V	125V		0.054	7.66	105 mV
2410TD-1.6A	1.6A	125V	125V		0.043	10.5	85 mV
2410TD-2.0A	2.0A	125V	125V		0.040	16.5	150 mV
2410TD-2.5A	2.5A	125V	125V		0.038	21.9	165 mV
2410TD-3A	3.0A	125V	125V		0.029	21.7	135 mV
2410TD-3.15A	3.15A	125V	125V		0.022	24.0	90 mV
2410TD-3.5A	3.5A	125V	125V		0.017	32.5	90 mV
2410TD-4A	4.0A	125V	125V		0.016	68.3	100mV
2410TD-5A	5.0A	125V	125V		0.014	57.3	115 mV
2410TD-7A	7.0A	125V	125V		0.009	93.1	95 mV

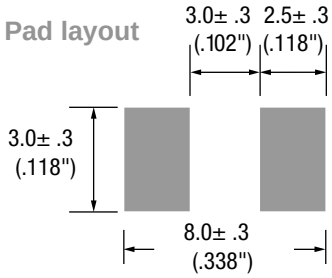
- AC Interrupting Rating measured at designated voltage, 100% power factor; DC Interrupting Rating measured at designated voltage, time constant of less
- than 50 microseconds, battery source
- DC Cold Resistance are measured at <10% of rated current in the ambient temperature of 25℃
- Typical Pre-arcing I2t are measured at 10In Current

Time Delay SMD 125VAC/DC Fuses — 2410TD Series

Dimension

Unit: mm(inch)

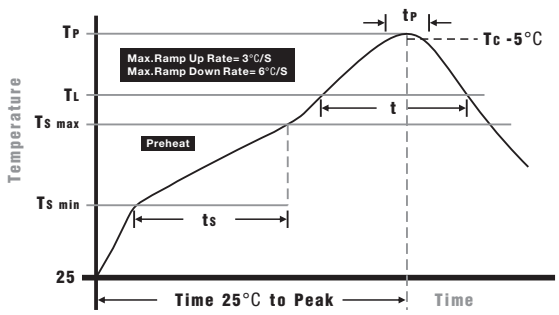




Packaging

- Quantity: 1,000pcs
- 12mm wide tape on 178mm(7 inch) diameter reel -specification EIA Standard 481.

Soldering Parameters

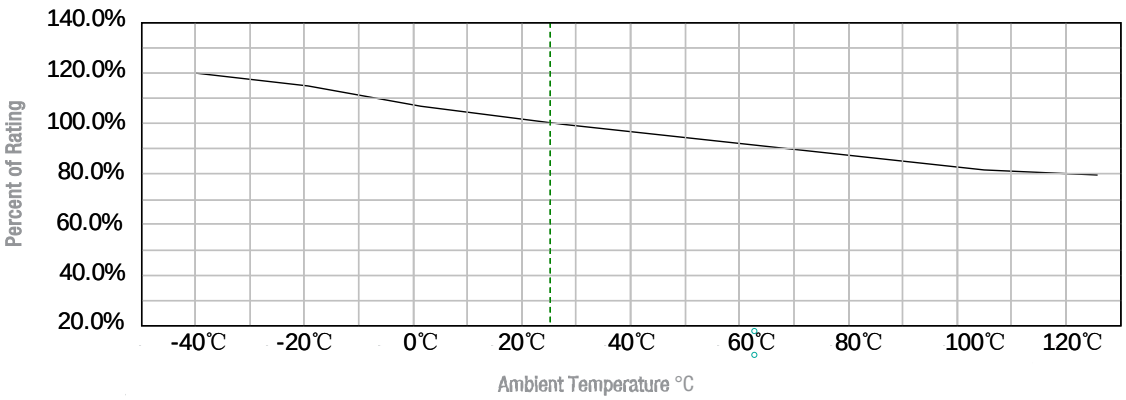


Wave Soldering: 260°C, 10 seconds max.
Infrared Reflow: 260°C, 30 seconds max.

IR Reflow Profile

Preheat Heat **Temperature min (Tsmin)** **Temperature max(Tsmax)** **Time (Tsmin to Tsmax) (ts)**	 150°C 200°C 60 -120 seconds
Average ramp-up rate (Tsmax to Tp)	3°C/second max.
Liquidous temperature (TL) **Time at liquidous (tL)**	217°C 60 - 150 seconds
Peak temperature(Tp)	260+0/-5°C
Time within 5°C of actual peak Temperature (tp)	10 – 30 seconds
Average ramp-down rate (Tp to Tsmax)	6°C/second max.
Time 25 °C to peak temperature	8 minutes max.

Temperature Derating Curve



- Normal ambient temperature: 23+/-3℃
- Operating temperature: -40℃ ~ 125℃, with proper correction factor applied

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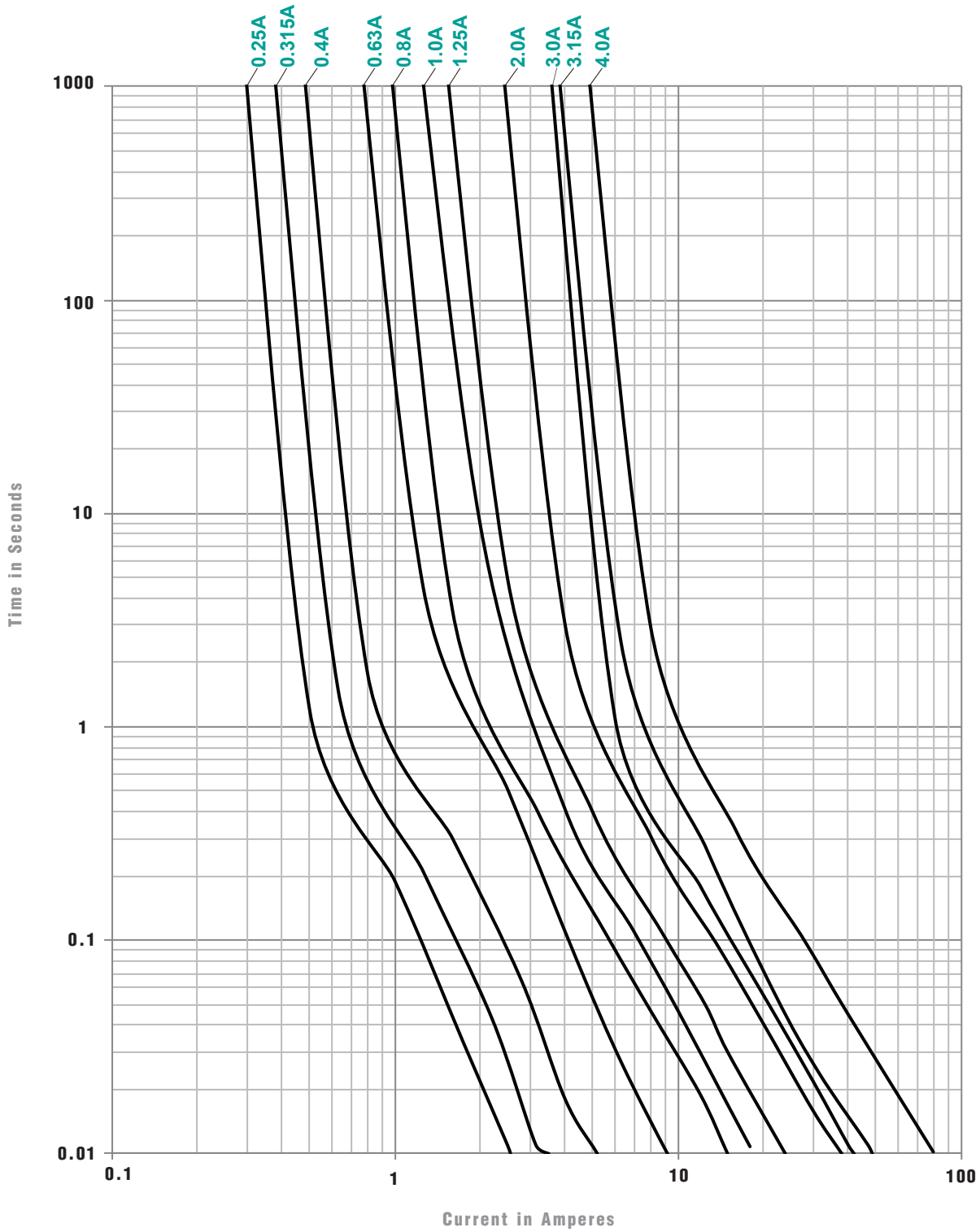
Time Current Curves



Time Current Curves