

# 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



### Key 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

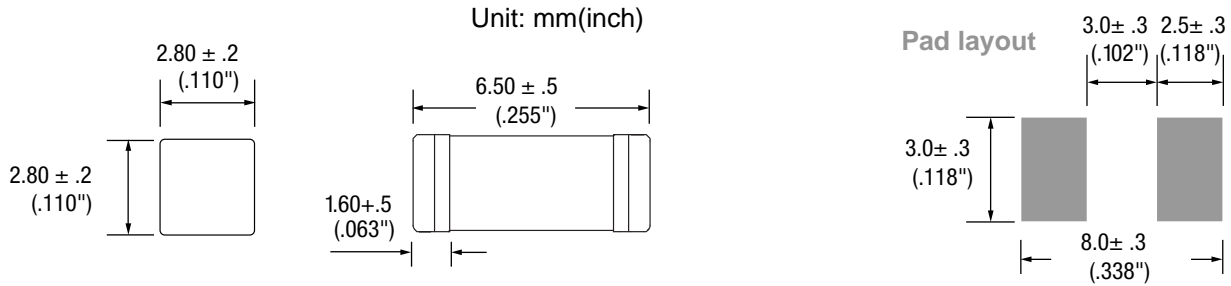
Part No.	Rated Current (I <sub>n</sub> )	Rated Voltage (V <sub>DC</sub> )		Rated Voltage (V <sub>AC</sub> )	DC Cold Resistance (R <sub>DC</sub> )	DC Cold Resistance (R <sub>DC</sub> )	DC Cold Resistance (R <sub>DC</sub> )
		57	87				
2410TD-R250	250mA	125V	125V	50A@125VAC 50A@125VDC	0.770	0.06	280 mV
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 °C
- Typical Pre-arcing I<sup>2</sup>t are measured at 10In Current

# Time Delay SMD 125VAC/DC Fuses

# 2410TD Series

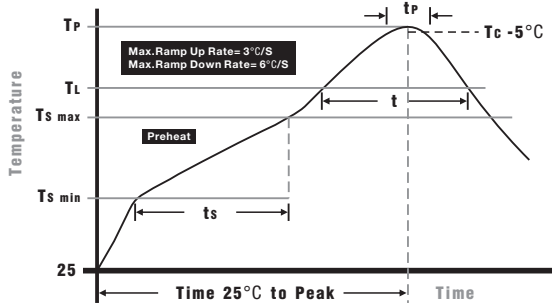
## Dimension



## Packaging

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

## Soldering Parameters

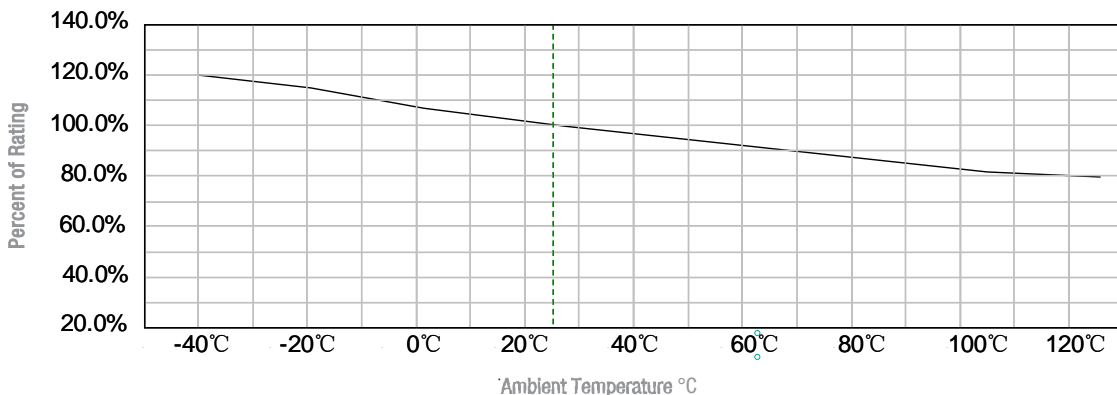


Wave Soldering: 260°C, 10 seconds max.  
 Infrared Reflow: 260°C, 30 seconds max.

## IR Reflow Profile

<b>Preheat Heat</b>	
Temperature min (T <sub>min</sub> )	150°C
Temperature max(T <sub>max</sub> )	200°C
Time (T <sub>min</sub> to T <sub>max</sub> ) (ts)	60 - 120 seconds
<b>Average ramp-up rate (T<sub>max</sub> to T<sub>p</sub>)</b>	3°C/second max.
<b>Liquidous temperature (T<sub>L</sub>)</b>	217°C
Time at liquidous (t <sub>L</sub> )	60 - 150 seconds
<b>Peak temperature(T<sub>p</sub>)</b>	260+0/-5°C
<b>Time within 5°C of actual peak Temperature (tp)</b>	10 - 30 seconds
<b>Average ramp-down rate (T<sub>p</sub> to T<sub>max</sub>)</b>	6°C/second max.
<b>Time 25 °C to peak temperature</b>	8 minutes max.

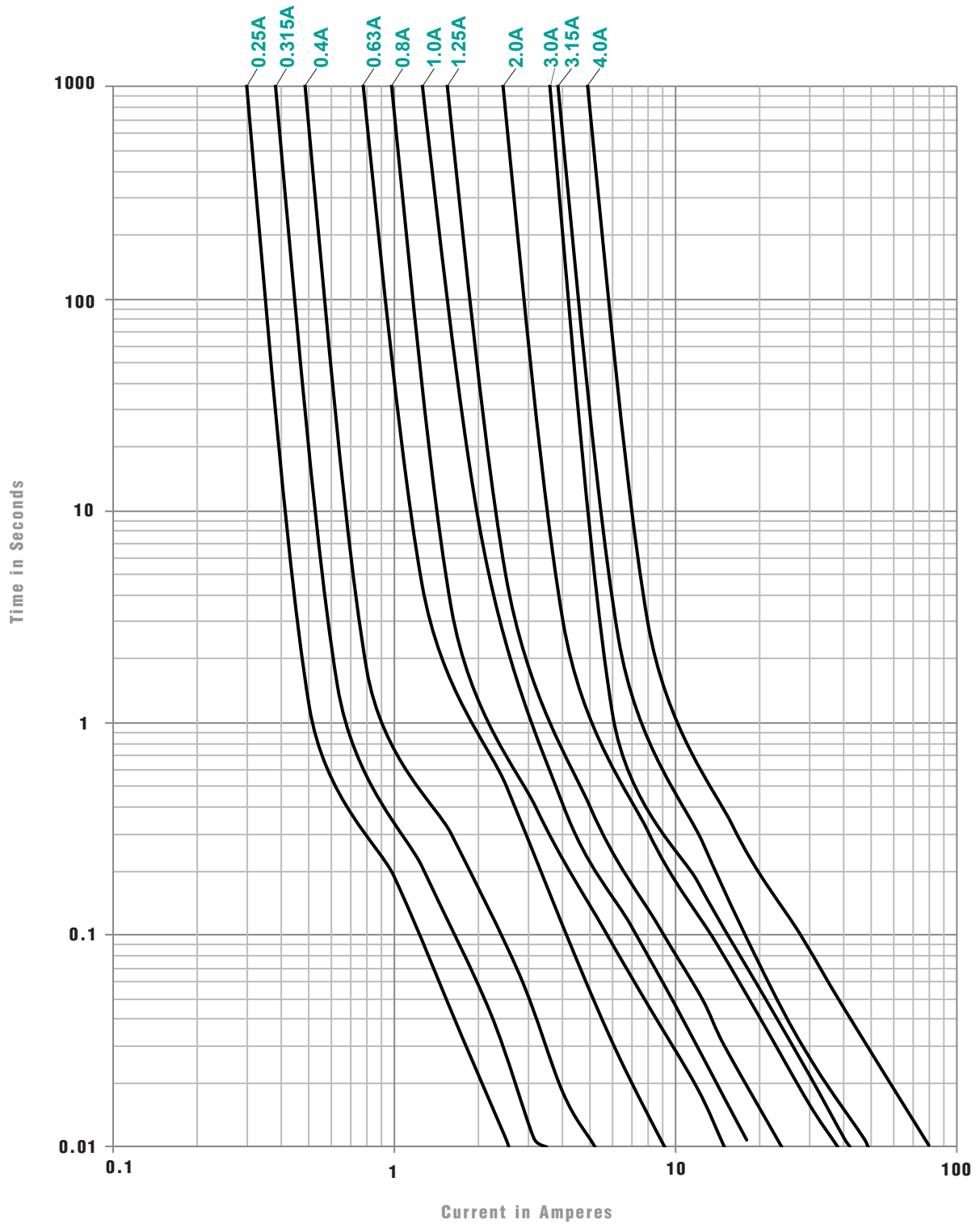
## Temperature Derating Curve



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

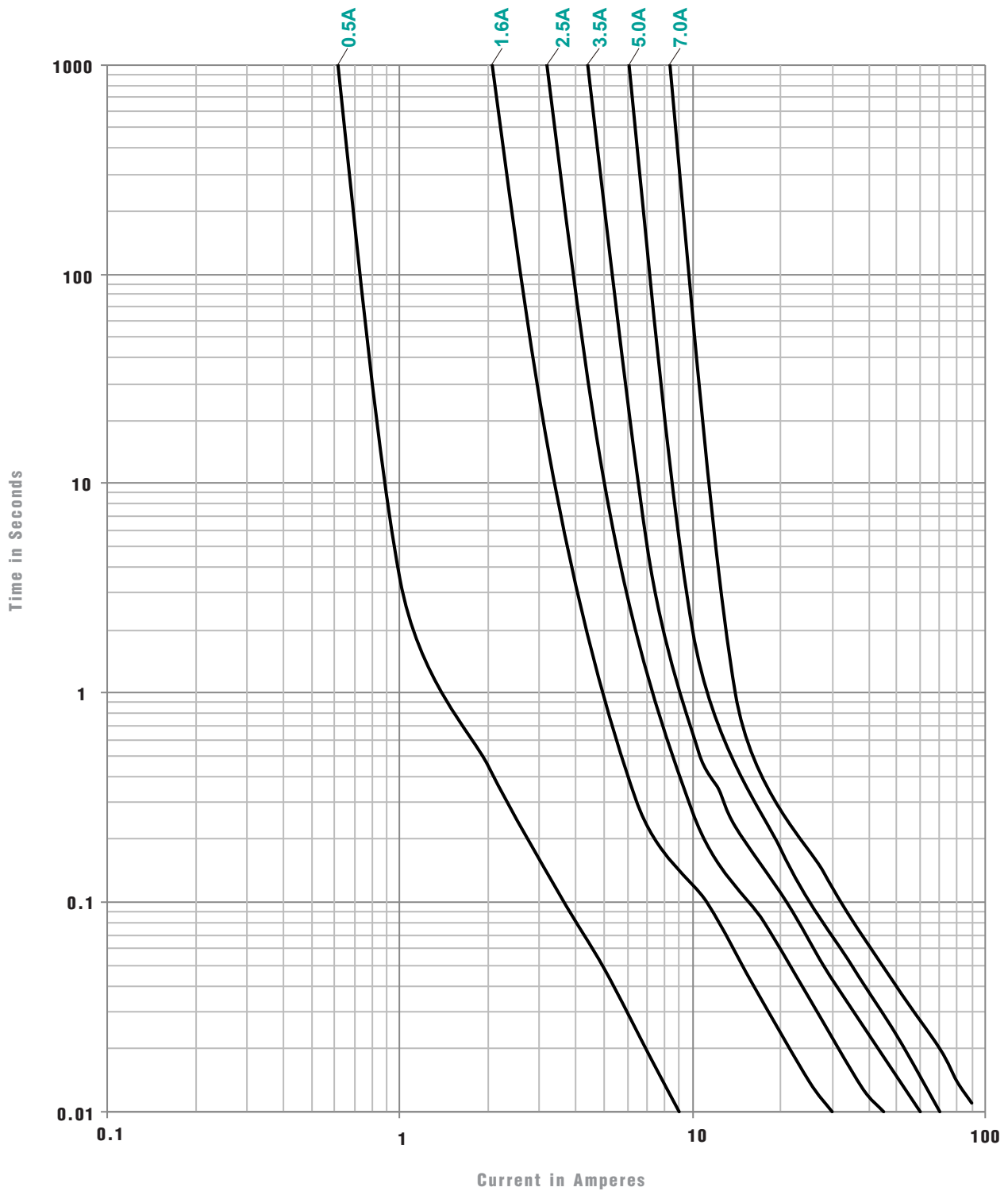
**Time Delay SMD 125VAC/DC Fuses** **2410TD Series**

**Time Current Curves**



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

**Time Current Curves**



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