

# Type 24T

## 6125 Slow-Blow SMD Fuses

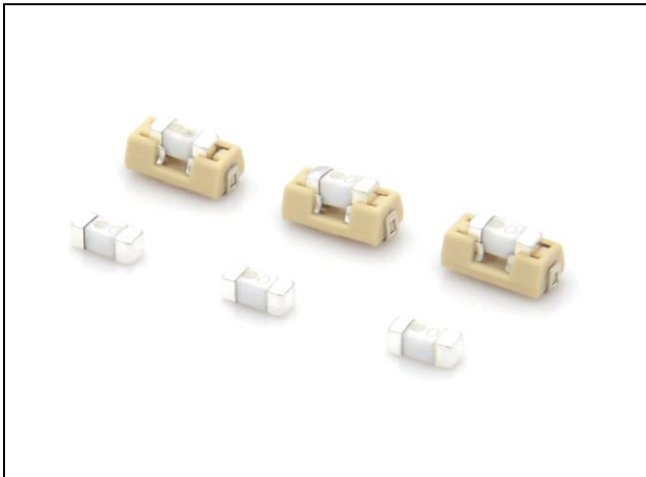


### Description

24T 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

- Rapid interruption of excessive current
- Compatible with reflow and wave solder
- One time positive disconnect
- Lead Free and Halogen free material



### Agency Approvals.

Safety Agency	Agency File Number	Ampere Range Volt@I.R.ABILITY
	E485357	100mA~20A 100A@250V AC 100mA~20A 50A@350V AC 100mA~20A 100A@125V AC 100mA~10A 100A@125V DC
	CQC18012207970	500mA~10A 35A@250V AC 4A~10A 10In@250V AC
	CQC19012215909	1A~2A 35A@350V AC
	JD 60150397	250mA~5A 100A@250V AC
	R 50357215	250mA~10A 100A@250V AC 500mA~3.15A 50A@350V AC

### Electrical Characteristics for Series

Rating Current	100% of Ampere Rating	200% of Ampere Rating	1000% of Ampere Rating
100mA~20A	4 Hour, Min.	120Sec. Max.	0.2ms Min. 150ms Max.

### Electrical Characteristic Specifications by Item

Part No.	Rated Voltage	Rated Current	Breaking Capacity(A)	Melting Integral 10In min(A <sup>2</sup> S)	Alpha Mark	Typical Voltage Drop (mV)	Approvals							
							TUV	PSE	CQC	cURus	TUV 350V	CQC 350V	cURus 350V	
24T0250	350VAC 250VAC 125VAC 125VDC	250mA	50A@350V AC 100A@250V AC 100A@125V AC 100A@125V DC	0.0986	A	1400	•	•		•			•	
24T0315		315mA		0.1633	C	1300	•	•		•				•
24T0400		400mA		0.3200	G	1300	•	•		•				•
24T0500		500mA		0.4175	D	900	•	•	•	•	•			•
24T0630		630mA		0.8800	F	800	•	•		•				•
24T0700		700mA		1.1520	E	800				•				•
24T0800		800mA		1.1520	J	600	•	•		•	•			•
24T1100		1A		1.5150	H	500	•	•	•	•	•	•		•
24T1125		1.25A		2.9980	I	400	•	•	•	•				•
24T1160		1.6A		3.8000	N	300	•	•	•	•				•
24T1200		2A		6.4000	O	300	•	•	•	•	•	•		•
24T1250		2.5A		7.9500	P	300	•	•		•				•
24T1300		3A		21.900	3A	300				•				•
24T1315		3.15A		28.360	R	300	•	•	•	•	•			•
24T1400		4A		30.990	U	300	•	•	•	•				•
24T1500		5A		54.010	V	300	•	•	•	•				•
24T1630		6.3A		94.890	W	300	•		•	•				•
24T1800		8A		174.96	Z	220	•			•				•
24T2100		10A		290.01	Y	220	•			•				•

\* 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

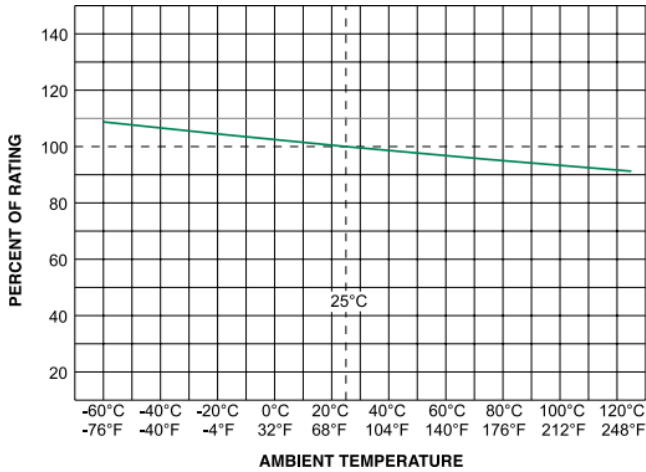
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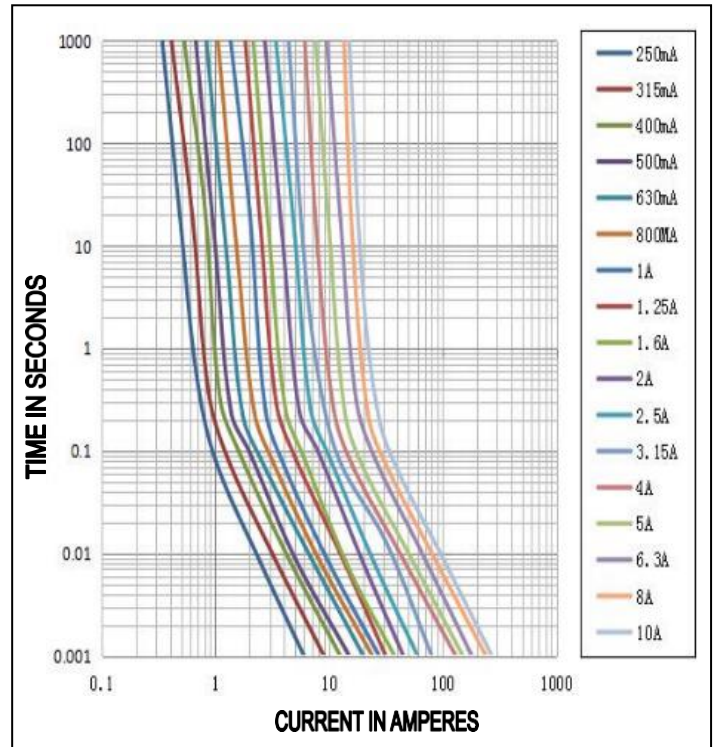


### Temperature Re-rating Curve

- \* Normal ambient temperature:  $23 \pm 3^\circ\text{C}$
- \* Operating temperature:  $-55 \sim +125^\circ\text{C}$  with proper correction factor applied

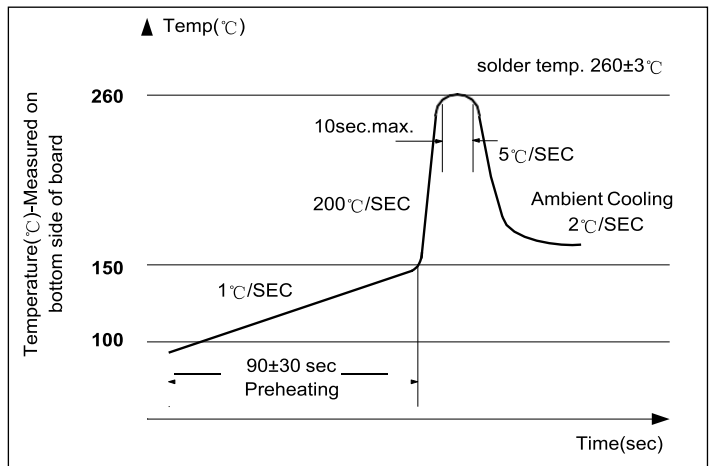


### Average Time Current Curves



### Soldering Parameters

Reflow Condition		Pb-Free assembly
Pre Heat	-Temperature Min( $T_{s(min)}$ )	150°C
	-Temperature Max( $T_{s(max)}$ )	200°C
	-Time (Min to Max)( $t_s$ )	60-180 secs
Average ramp up rate (Liquidus Temp( $T_L$ ) to peak)		5°C/second max
Ts(max) to $T_L$ Ramp-up rate		5°C/second max
Reflow	-Temperature( $T_L$ )(liquidus)	217°C
	-Temperature( $t_L$ )	60-150 seconds
Time within 5°C of actual peak Temperature( $t_p$ )		20-40 seconds
Ramp-down Rate		5°C/second max
Time 25°C to peak Temperature ( $T_p$ )		8 minutes Max.
Do not exceed		260°C



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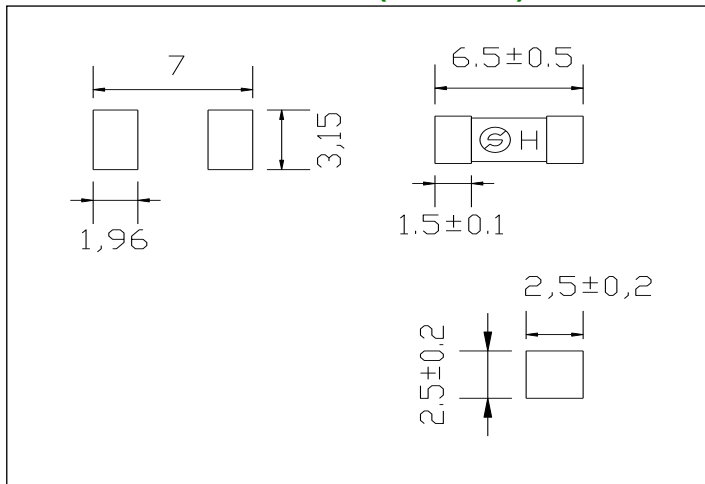


### Product Characteristics

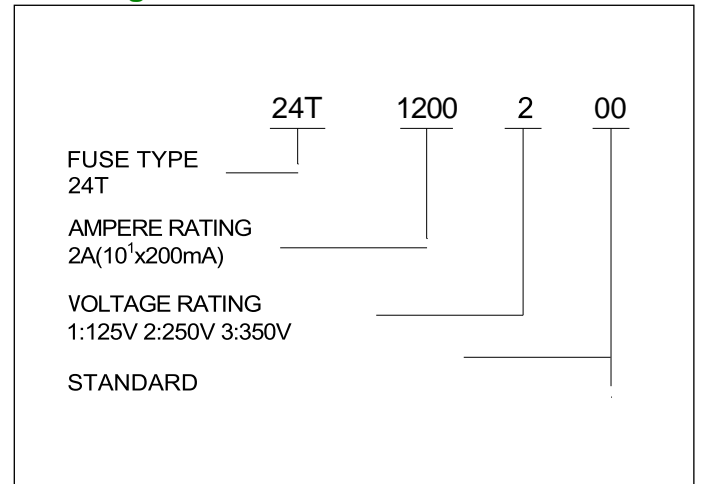
<b>Materials</b>	<b>Body:</b> Ceramic <b>Terminations:</b> Gold-plated Caps
<b>Product Marking</b>	Brand, Amperage Rating
<b>Operating Temperature</b>	-55°C to 125°C
<b>Moisture Sensitivity Level</b>	Level 1, J-STD-020
<b>Solderability</b>	MIL-STD-202, Method 208
<b>Insulation Resistance (after Opening)</b>	MIL-STD-202, Method 302, Test Condition A (10,000 ohms minimum)

<b>Thermal Shock</b>	MIL-STD-202, Method 107, Test Condition B, 5 cycles, -65°C to 125°C, 15 minutes @ each extreme
<b>Mechanical Shock</b>	MIL-STD-202, Method 213, Test I: Deenergized. 100G's pk amplitude, sawtooth wave 6ms duration, 3 cycles XYZ+xyz = 18 shocks
<b>Vibration</b>	MIL-STD-202, Method 201: 0.03" amplitude, 10-55 Hz in 1 min. 2hrs each XYZ=6hrs
<b>Moisture Resistance</b>	MIL-STD-202, Method 106, 10 cycles
<b>Salt Spray</b>	MIL-STD-202, Method 101, Test Condition B (48hrs)
<b>Resistance to Soldering Heat</b>	MIL-STD-202, Method 210, Test condition B (10 sec at 260°C)

### Mechanical Dimensions (Unit:mm)



### Ordering Information



### Packaging

Packaging Option	Packaging Specification	Quantity
24T	tape-and-reel	1000pcs