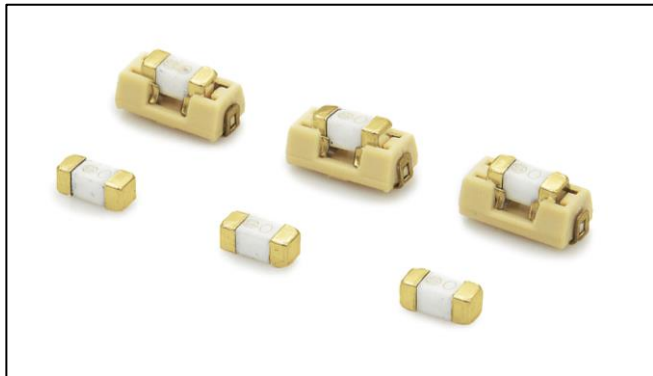


# Type 24T

## 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/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~10A 50A@350V AC
	SU05050-23001 1A~2.5A SU05050-23002 3.15A~5A	100A@250V 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.	10ms Min. 100ms 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	KC	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		13.500	O	300	•	•	•	•	•	•	•		•
24T1250		2.5A		16.800	P	300	•	•		•	•				•
24T1300		3A		21.900	R	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	•		•	•		•			•
24T1700		7A		98.100	7	300				•					•
24T1800		8A		174.96	Z	220	•			•		•			•
24T2100		10A		290.01	Y	220	•		•	•		•			•
24T2120		12A		216.10	12	200				•					
24T2150		15A		225.00	15	100				•					
24T2160	16A	256.00	16	100				•							
24T2200	20A	400.00	20	100				•							

\* 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

# Type 24T

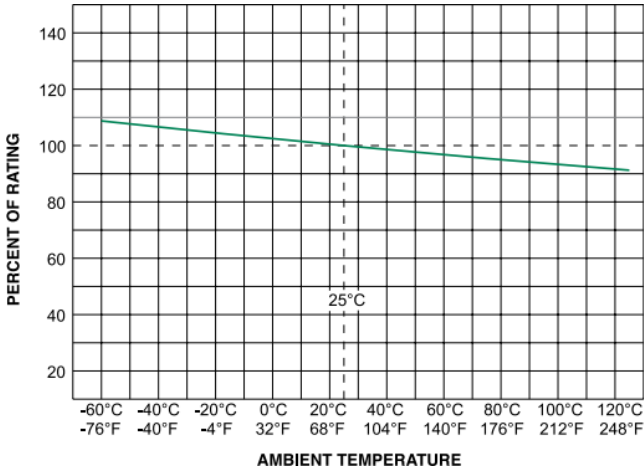
## 6125 Slow-Blow SMD Fuses



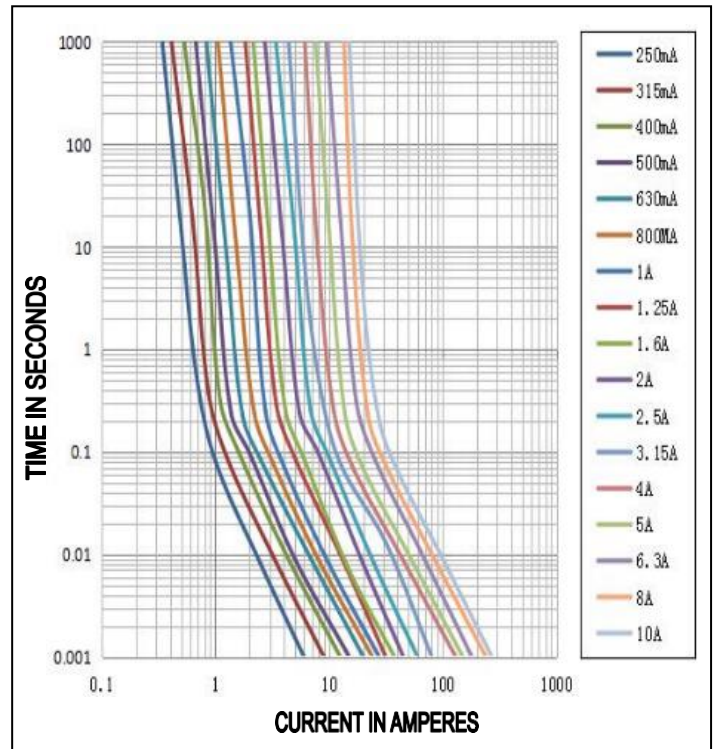
### Temperature Re-rating Curve

\* Normal ambient temperature:  $23 \pm 3^\circ\text{C}$

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

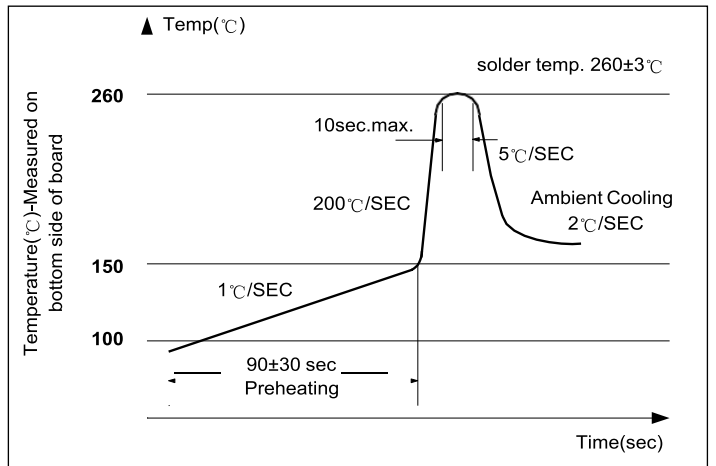


### Average Time Current Curves



### 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



# Type 24T

## 6125 Slow-Blow SMD Fuses

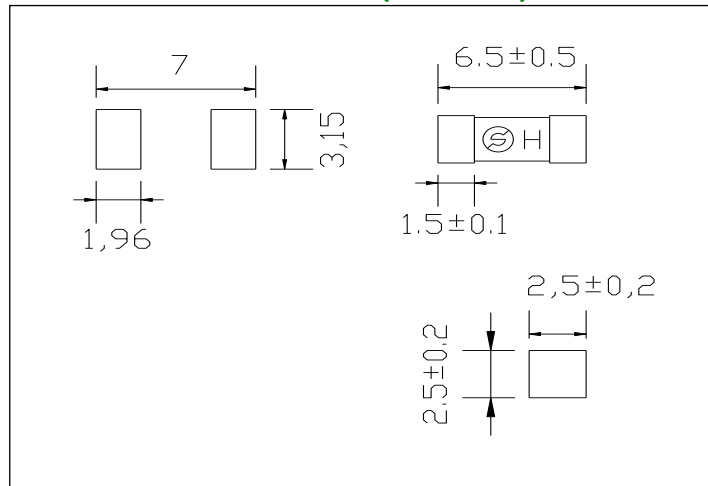


### Product Characteristics

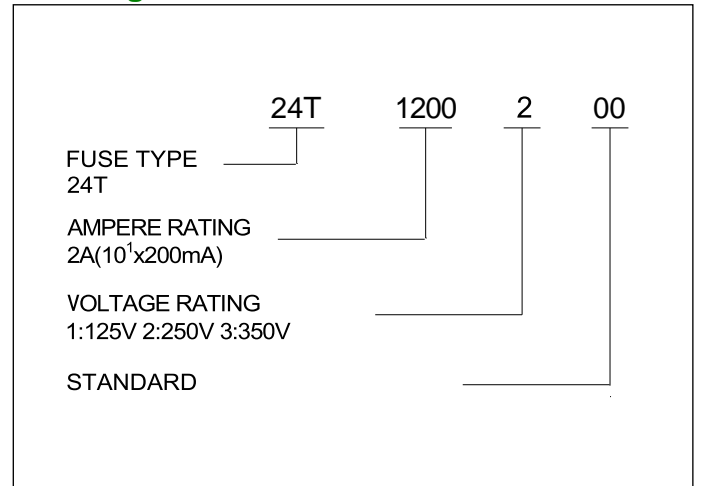
Materials	Body: Ceramic Terminations: Gold-plated Caps
Soldering Parameters	260°C ≤ 10 sec. (Wave Soldering) 350°C ≤ 3 sec. (Hand Soldering)
Soldering Peak (Wave Soldering)	260°C ≤ 10 sec. 350°C ≤ 5 sec.

Operating Temperature	-55°C to +125°C (consider de-rating)
Stock Condition	+10°C to +60°C Relative humidity ≤ 75% yearly Average, without dew, maximum Value for 30 days-95%
Vibration Resistance	24 cycles at 15 min. each (60068-6) 10-60Hz at 0.75mm amplitude 60-2000Hz at 10g acceleration

### Mechanical Dimensions (Unit:mm)



### Ordering Information



### Packaging

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