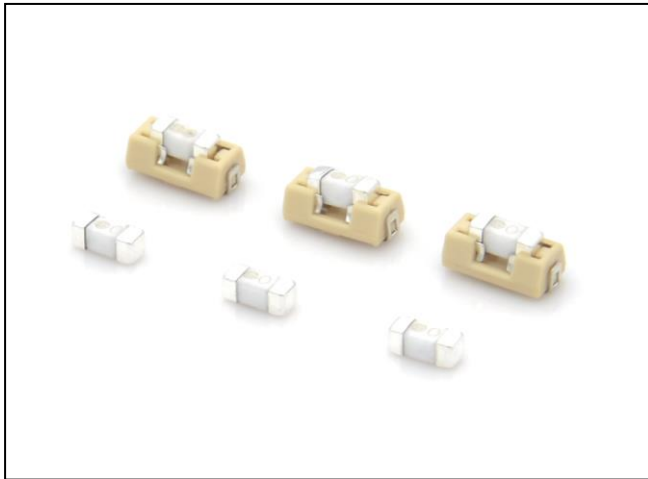


Type 24F

6125 Fast-Acting SMD Fuses



Description

24F 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~11A 50A@350V AC 100mA~20A 100A@125VAC/DC 12A~20A 500A@72VDC 12A~20A 500A@63VDC 12A~20A 500A@32VDC 12A~20A 500A@24VDC

Electrical Characteristics for Series

Rating Current	100% of Ampere Rating	200% of Ampere Rating
100mA~20A	4 Hour, Min.	5Sec., Max.

Electrical Characteristic Specifications by Item

Part No.	Rated Current	Rated Voltage	Breaking Capacity (A)	Melting Integral 10ln min(A ² S)	Alpha Mark	Typical Voltage Drop (mV)	Approvals cURus
24F0250	250mA	350V AC 250V AC 125V AC 125V DC	50A@350V AC 100A@250V AC 100A@125V AC 100A@125V DC	0.025	A	1400	•
24F0315	315mA			0.039	C	1300	•
24F0500	500mA			0.100	D	900	•
24F0630	630mA			0.158	F	800	•
24F0800	800mA			0.256	J	600	•
24F1100	1A			0.400	H	500	•
24F1125	1.25A			0.625	I	400	•
24F1160	1.6A			1.024	N	300	•
24F1200	2A			1.600	O	300	•
24F1250	2.5A			2.500	P	300	•
24F1315	3.15A			3.969	R	300	•
24F1400	4A			6.400	U	300	•
24F1500	5A			10.000	V	300	•
24F1630	6.3A			15.876	W	300	•
24F1700	7A			21.500	7	220	•
24F1800	8A			25.600	Z	220	•
24F2100	10A			40.000	Y	220	•
24F2120	12A	250V AC 125V AC 125V DC 72V DC	50A@250V AC 100A@125V AC 100A@125V DC 500A@72V DC	68.000	12	220	•
24F2150	15A			94.500	15	220	•
24F2200	20A			250.00	20	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

Type 24F

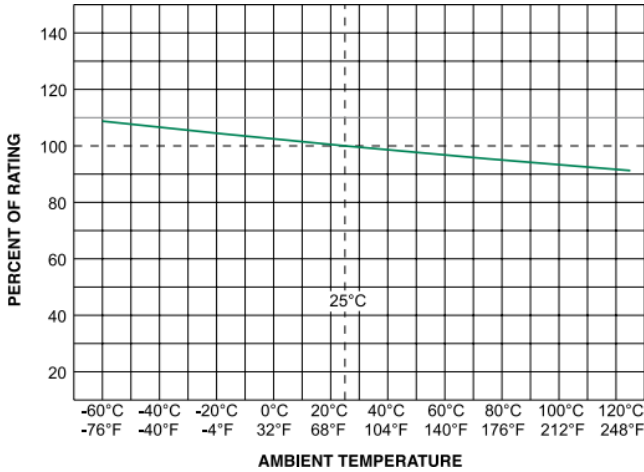
6125 Fast-Acting SMD Fuses



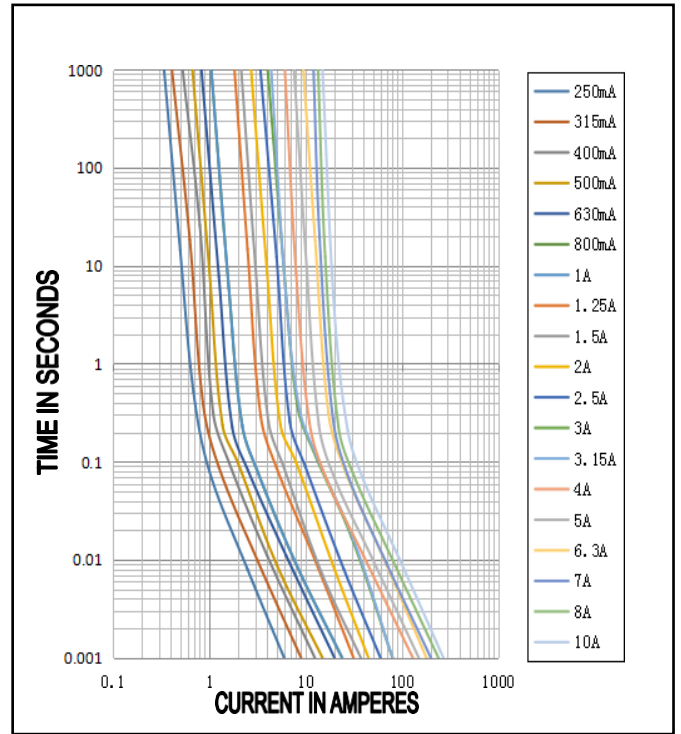
Temperature Re-rating Curve

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

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

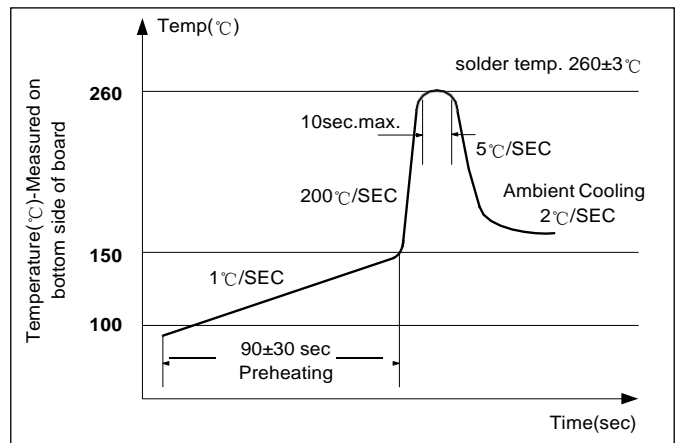


Average Time Current Curves



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 24F

6125 Fast-Acting SMD Fuses

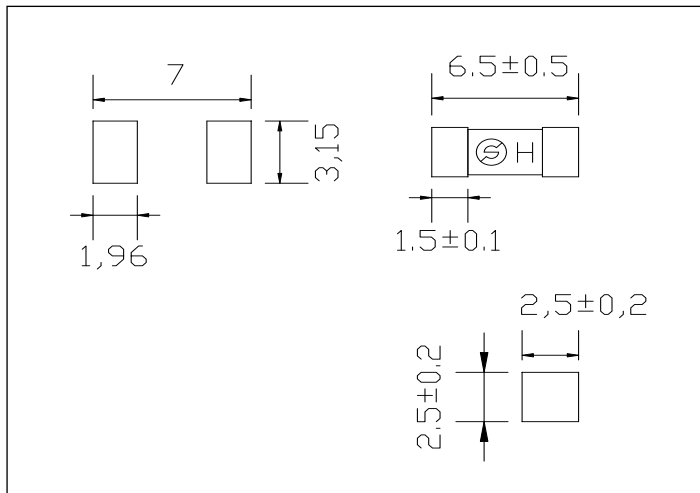


Product Characteristics

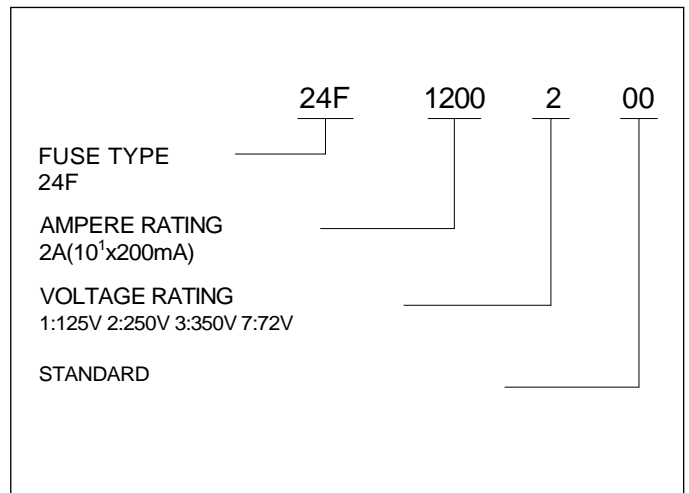
Materials	Body: Ceramic Terminations: Silver-plated Caps
Soldering Parameters	260°C ≤ 10 sec. (Wave Soldering) 350°C ≤ 3 sec. (Hand Soldering)
Soldering Peak (Wave Soldering)	260°C ≤ 10 sec. 350°C ≤ 5 sec.

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
24F	tape-and-reel	1000PCS