







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 File	Ampere Range
Agency	Number	Volt@I.R.ABILITY
c 91 2°us	E485357	100mA-11A 250V AC@100A 100mA-11A 350V AC@50A 100mA-11A125VAC/DC@100A

Electrical Characteristics for Series

Rating Current	100% of Ampere Rating	200% of Ampere Rating Max.
100mA~11A	4 Hour, Min	10sec.

Electrical Characteristic Specifications by Item

Part No Rated Voltage	Rated Current(A)	Breaking Capacity	Melting Integral	Albha Mark	Typical Voltage Drop (mV)	Approvals	
		(A)	10In min(A2S)			cURus	
24F0250		250mA		0.0986	А	1400	•
24F0315		315mA		0.1633	С	1300	•
24F0500		500mA		0.4175	D	900	•
24F0630		630mA		0.8800	F	800	•
24F0800		800mA		1.1520	J	600	•
24F1100	350VAC	1A		1.5150	Н	500	•
24F1125		1.25A	50A@350VAC	2.9980	1	400	•
24F1160	250VAC	1.6A	100A @250VAC	3.8000	N	300	•
24F1200	125VAC	2A	100A@125V AC	6.4000	0	300	•
24F1250	125VDC	2.5A	100A @125VDC	7.9500	Р	300	•
24F1315		3.15A		28.360	R	300	•
24F1400		4A		30.990	U	300	•
24F1500		5A		54.010	V	300	•
24F1630		6.3A		94.890	W	300	•
24F1800		8A		174.96	Z	220	•
24F2100		10A	10A	290.01	Y	220	•

^{*} DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)

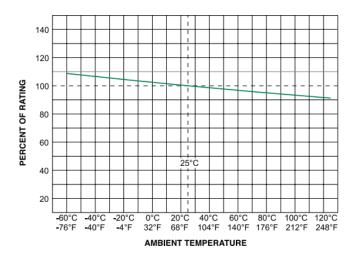
^{*} DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25 degrees

Type 24F

6125 Fast-Acting SMD Fuses

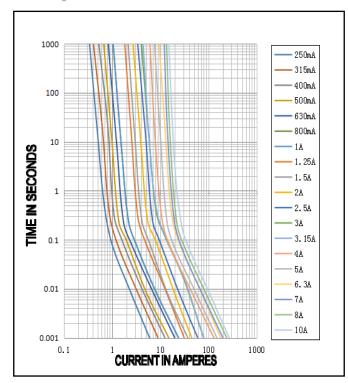
Temperature Re-rating Curve

- * Normal ambient temperature: 23±3℃
- * Operating temperature: -55 ~+125℃, with proper correction factor applied



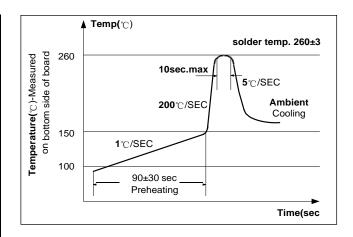


Average Time Current Curves



Soldering Parameters

Reflow Condition	Pb-Free assembly		
	-Temperature Min(T _{s(min)})	150 ℃	
Pre Heat	-Temperature Max(T _{s(max)})	200℃	
	-Time (Min to Max)(t _s)	60-180 secs	
Average ramp up rate	5°C/second max		
Ts(max)to T∟ Ramp-up rate		5°C/second max	
Reflow	-Temperature(TL)(liquidus	217 ℃	
	-Temperature(t _L)	60-150 seconds	
Time within 5°C of actual peak Temperature(tp)		20-40 seconds	
Ramp-down Rate		5°C/second max	
Time 25°C to pesk Temperature (T _p)		8 minutes Max.	
Do not exceed		260℃	









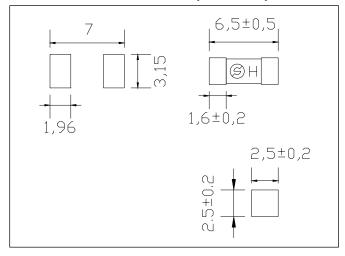


Product Characteristics

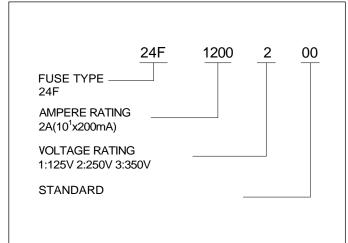
Materials	Body: Ceramic Terminations: Gold-plated Caps	
Product Marking	Brand, Amperage Rating	
Operating Temperature	-55°C to 125°C	
Moisture Sensitivity Level	Level 1, J-STD-020	
Solderability	MIL-STD-202, Method 208	
Insulation Resistance (after Opening)	MIL-STD-202, Method 302, Test Condition A (10,000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

Thermal Shock	MIL-STD-202, Method 107, Test Condition B, 5 cycles, -65°C to 125°C, 15 minutes @ each extreme	
Mechanical Shock	MIL-STD-202, Method 213, Test I: Deenergized. 100G's pk amplitude, sawtooth wave 6ms duration, 3 cycles XYZ+xyz = 18 shocks	
Vibration	MIL-STD-202, Method 201: 0.03" amplitude, 10-55 Hz in 1 min. 2hrs each XYZ=6hrs	
Moisture Resistance	MIL-STD-202, Method 106, 10 cycles	
Salt Spray	MIL-STD-202, Method 101, Test Condition B (48hrs)	
Resistance to Soldering Heat	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
24F	tape-and-reel	1000PCS