

125 Fast-Acting SMD Fuse



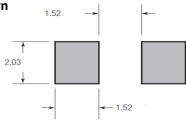
Dimensions (unit: mm)
Top view

Side view:

250mA~750mA/20A~40A

1A~15A

Recommended land pattern



Main Characteristics

SMD fuse; Fast-Acting(F)

Standard

UL248-14

Materials

Substrate: Ceramic

Termination: Silver over-plated with nickel and Tin

Operating Temperature

-55°C to +150°C

Storage Conditions

+10°C to +60°C

Relative humidity: ≤75% yearly average
Without dew, maximum 30 days at 95%

Vibration Resistance

24 cycles at 15 min. each (60068-6)
10-60Hz at 0.75mm amplitude
60-2000Hz at 10g acceleration

Soldering Parameters

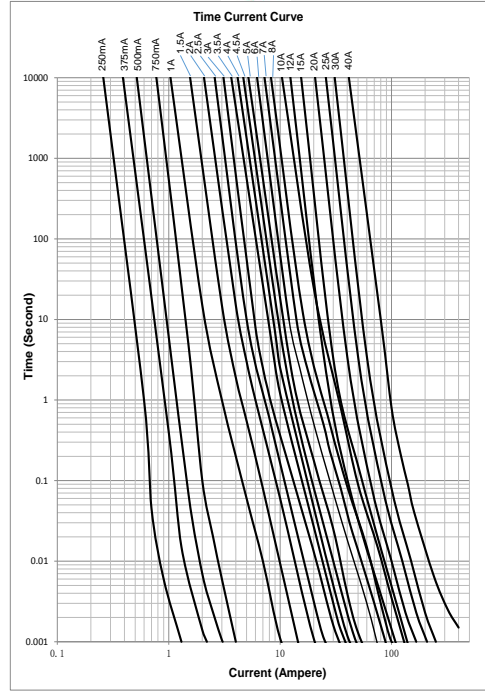
260°C. ≤ 10 sec (Wave Soldering)

300°C. ≤ 2 sec (Hand Soldering)

Soldering Peak:

260°C. 10 sec.

280°C. 5 sec. (IEC 60068-20)



Time vs Current Characteristics: UL248-14

Rated Current	100%	250%	350%
250mA~5A	>4h	<5s	/
6A~40A	>4h	/	<5s



Electrical Characteristics at 25°C

Amp Code	Rated Current	Rated Voltage	Typical Voltage Drop Max(mV)	Breaking Capacity	Typical Melting I ² T (A ² s)	Typ Resistance (mΩ)	Alpha Mark	Approvals		
								cURus		
0250	250mA	72VDC 63VDC 32VDC 24VDC	1400	50A@72V DC 50A@63V DC 150A@32V DC 300A@24V DC	0.00043	2400~4600	0.25	•		
0375	375mA		715		0.00083	1200~2300	E	•		
0500	500mA		648		0.0025	700.0~1300	0.5	•		
0750	750mA		605		0.0058	350.0~730.0	0.75	•		
1100	1.00A		515		0.13	325.5~604.5	H	•		
1150	1.50A		365		0.16	150.5~279.5	K	•		
1200	2.00A		315		0.42	84.0~156.0	N	•		
1250	2.50A		242		0.66	52.5~97.5	O	•		
1300	3.00A		185		1.41	33.6~62.4	P	•		
1350	3.50A		185		1.67	25.6~47.5	R	•		
1400	4.00A		175		1.75	23.1~42.9	S	•		
1450	4.50A		165		2.65	19.6~36.4	X	•		
1500	5.00A		32VDC 24VDC		143	150A@32V DC 300A@24V DC	2.92	16.1~29.9	T	•
1600	6.00A				142		11.5	10.5~19.5	F	•
1700	7.00A	141		12.7	8.22~15.3		7	•		
1800	8.00A	112		14.5	5.00~11.5		M	•		
2100	10.00A	32VDC 24VDC	105	150A@32V DC 300A@24V DC	20.5	4.50~8.50	U	•		
2120	12.00A		88		11.6	3.50~6.50	12	•		
2150	15.00A		80		16.8	2.30~5.00	15	•		
2200	20.00A		65		47.8	1.10~2.40	20	•		
2250	25.00A		55		32.5	1.00~2.00	25	•		
2300	30.00A		65		43.6	0.80~1.49	30	•		
2400	40.00A		32VDC 24VDC		97	200A@32V DC 200A@24V DC	161	0.60~1.12	XL	•

- Note:**
- 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°C
 - Typical Pre-arcing I²t are measured at 10In Current

Ordering Information

Series	Amp Code	Supplementary Code	Qty
125			