

# 127 Fast-Acting SMD Fuse



## Main Characteristics

SMD fuse; Fast-Acting(F)

## Standard

UL-248-14

## Materials

Substrate: Ceramic

Termination: Silver over-plated with nickel and Tin

## Operating Temperature

-55°C to +125°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)

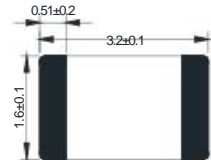
300°C. ≤2 sec (Hand Soldering)

## Soldering Peak:

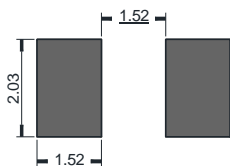
260°C. 10 sec.

280°C. 5 sec. (IEC 60068-20)

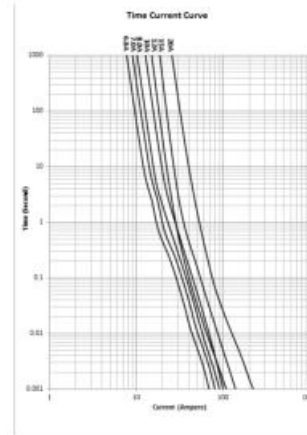
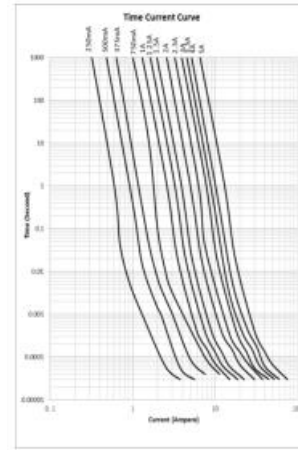
Dimensions (unit: mm)



Recommended land pattern  
(unit: mm)



Average Time Current(I-T Curve)



Time vs Current Characteristics:UL-248-14

Rated Current	100%	250%	350%
250mA-5A	≥4H	≤5s	-
6A-20A	≥4H	≤5s	



## Electrical Characteristics at 25 °C

Amp Code	Rated Voltage		Rated Current	Breaking Capacity AC/DC	Typical Cold Resistance(mΩ)	Typical Voltage Drop (mV)	Nominal Melting I <sup>2</sup> t(A <sup>2</sup> sec)	Alpha Marking
	AC	DC						
0250	125V	125V	250mA	50A	3608	1407	0.00012	0.25
0375			375mA		1882	718	0.0003	E
0500			500mA		1028	650	0.0005	0.5
0750			750mA		850	1000	0.009	0.75
1100			1A		240	300	0.0075	H
1125			1.25A		175	290	0.009	
1150			1.5A		125	250	0.013	1.5
1200			2A		80	200	0.04	N
1250			2.5A		38	140	0.045	2.5
1300			3A		32	130	0.065	P
1350			3.5A		25	120	0.08	3.5
1400			4A		20	110	0.11	S
1500			5A		13	100	0.185	T
1600			6A		15.5	140	8	F
1700	7A	11.5	130	10	7			
1800	8A	7.6	123	12	V			
2100	48V 32V	150A	10A	5.5	110	18	U	
2120			12A	5	85	11.5	12	
2150			15A	3.4	78	16.5	15	
2200			20A	2.2	80	40	Q	

- Note:** (1) DC interrupting rating (measured at rated voltage, time constant of less than 50 microseconds, battery source)  
(2) DC cold resistance are measured at <10% of rated current in ambient temperature of 25 °C  
(3) Typical pre-arcing I<sup>2</sup>t are measured at 10In current

## Ordering Information

Series	Amp Code	Supplementary Code	Qty
127			

