



Additional Information







Resources

Accessories

Samples

Description

This high-current SMD fuse is a small, square, surface mount fuse that is designed as supplemental overcurrent protection for high-current circuits in various applications. This faster opening version enhances protection of the product from overload and short circuit current events in the application.

Features & Benefits

- Available in 70A, 80A, and 100A ratings
- High interrupting rating -1500A @ 75Vdc
- With faster opening time response
- Surface mountable high current fuse
- Robust and solderless fuse design
- Lead-free, Halogen-free, and RoHS compliant
- UL Recognized to UL/CSA/NMX 248-1

- Single fuse solution for high current applications
- Suitable for a wide variety of voltage requirement and application
- Guaranteed protection against overload and short circuit current events
- Compatible with high volume assembly requirements
- Enhanced product reliability and performance
- Conforms to IEC/EN 60127-1 and IEC/EN 60127-7

Applications

- Blade Servers
- Routers
- High-power Battery Systems
- Power Factor Correction (PFC) in high wattage power supplies
- Power Distribution Units (PDUs)

Agency Approvals

Agency	Agency File Number	Ampere Range
c Fl us	E71611	70A – 100A
\triangle	J50501628	70A – 100A

Electrical Characteristics for Series

% of Ampere Rating	Opening Time
100%	1 Hour, Min.
200%	60 Seconds Max

Electrical Specifications by Item

Ampere		Max Voltage Interruptin Rating (V) Rating	Interrunting	Nominal Cold Resistance (mOhms)	Nominal Voltage Drop * (mV)	Nominal Melting ** I²t (A²sec)	Agency Approvals	
Rating (A) Amp Code			c 71 3°us				\triangle	
70	070.			0.82	89	1050	Χ	Χ
80	080.	75Vdc	1500A @75Vdc	0.63	86	2000	X	Χ
100	100			0.52	96	4800	X	X

Thermal Characteristics

Ampere Rating	Typical Case Temperature Rise (°C) *			
I _n (A)	@ 50%I _n	@ 75%I _n	@ 100%I _n	
70	16	38	73	
80	25	58	88	
100	32	60	127	

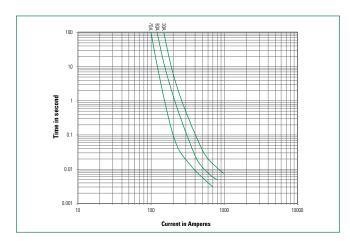
^{*} Typical values based on tests conducted with fuse mounted on FR-4 circuit board of 0.062" (1.6 mm) thickness with 6 oz. (210 µm) Cu.



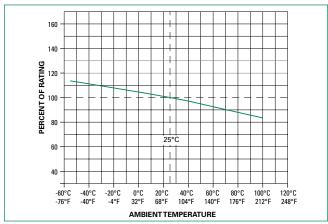
881F Series

High-Current Fast Opening SMD Fuse

Average Time Current Curves



Temperature Re-rating Curve



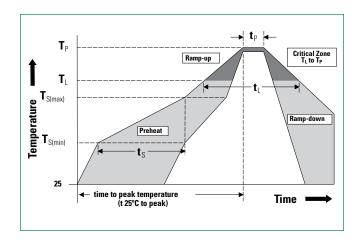
- Note:

 1. Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.
- For continuous operation at 70°C, the fuse should be re-rated as follows:
- | = (0.75)(0.90)|_a = (0.675)_a

 2. The temperature re-rating curve represents nominal conditions. For questions about the temperature rerating curve, please consult Littelfuse technical support assistance.

Soldering Parameters

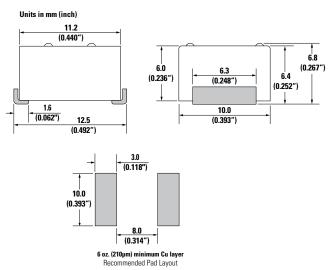
Reflow Condi	Pb – Free assembly		
	-Temperature Min (T _{s(min)})	150°C	
Pre Heat	-Temperature Max (T _{s(max)})	200°C	
	-Time (Min to Max) (t _s)	60 – 180 secs	
Average ramp	5°C/second max.		
$T_{S(max)}$ to T_L - F	5°C/second max.		
Reflow	-Temperature (T _L) (Liquidus)	217°C	
TICHOW	-Temperature (t _L)	60 – 150 seconds	
Peak Tempera	260+0/-5 °C		
Time within !	20 – 40 seconds		
Ramp-down	5°C/second max.		
Time 25°C to	8 minutes max.		
Do not excee	260°C		



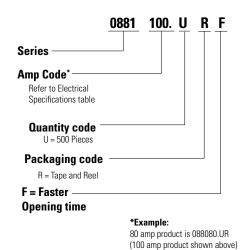
881F Series

High-Current Fast Opening SMD Fuse

Dimensions



Part Numbering System



Product Characteristics

Materials	Body: Thermoplastic, RTI 150°C Terminations: Tin-plated Copper	
Product Marking	Brand logo, Voltage Rating, 'F' (Faster Opening Time), and Ampere Rating	
Operating Temperature 1 2	-55° to +100°C with proper derating	

- Based on loading at 75% of ampere rating when mounted using recommended pad layout.
 Usage outside of stated operating temperature range requires testing in application.
- Maintain case temperature below 150°C in application.

Thermal Shock	MIL-Std 202 Method 107 Test Condition B (-65°C to 125°C, 5 cycles).		
Moisture Resistance	MIL-Std 202 method 106 High Humidity (90-98%RH), Heat (65°C)		
Vibration	MIL-STD-202, Method 201 (10-55 Hz)		
Mechanical Shock	MIL-STD-202, Method 213, Test Condition I (100 G's peak for 6 milliseconds)		
Resistance to Solder Heat	MIL-Std 202 Method 210 Test Condition B (10sec at 260°C)		
Solderability	MIL-STD-202 Method 208		
MSL Test	Level 1 J-STD-020		
Salt Fog	MIL-Std 202 Method 101 Test Condition B (5% NaCL solution, 48 hours exposure)		

Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code
24mm Tape and Reel	EIA-481 Rev. D (IEC 60286-3)	500	UR

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