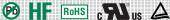
Surface Mount Fuses NANO^{2®} > 500 VDC Rated Fuse > 885 Series

885 Series Fuse













Agency Approvals

AGENCY	AGENCY FILE NUMBER	AMPERE RANGE	
c 91 °us	E10480	1A-5A	
A	R50395911	1A-5A	

Electrical Characteristics for Series

% of Ampere Rating	Opening Time	
125%	1 hour, Minimum	
200%	2 minutes, Maximum	
1000%	1 second, Maximum	

Description

The 885 Nano^{2®} Surface Mount Fuses are high voltage rated fuses with high interrupting current ratings at 450VDC/500VDC and 350VAC. It complies with IEC 60127-7 Standard.

Features

- · Heat resistant plastic housing, UL 94 V-0
- Meets Littelfuse's Automotive qualifications*
- Low voltage drop
- Internationally approved
- High pulse resistance
- Lead-free -- compatible with lead-free solders and higher temperature profiles
- Available in ratings of 1A to 5A

Applications

Automotive

Additional Information









Samples

Electrical Specifications by Item

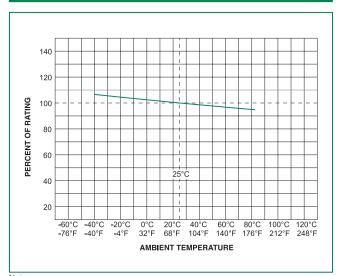
Ampere Amp Voltage Rating Code Rating (A) (V)	_	Interrupting Rating	Nominal Cold Resistance (Ohms) ¹	Nominal Melting I²t (A²sec)	Nominal Voltage Drop (mV)	Nom Power Dissipation (mW)	Agency Approvals		
	Rating						c FL °us	A	
1.00	001.		1500A @ 350VDC 100A @ 500VDC 100A @ 350VAC	0.0780	0.80	105	105	×	X
1.25	1.25			0.0630	1.25	105	131	X	X
1.60	01.6	E00		0.0473	2.30	98	157	X	X
2.00	002.	500		0.0322	4.70	91	182	X	X
2.50	02.5		1500A @ 125VDC	0.0267	6.90	88	220	X	X
3.15	3.15		100A @ 500VDC 100A @ 350VAC	0.0196	13.35	79	249	X	X
4.00	004.	450 10	1500A @ 125VDC 50 100A @ 450VDC 100A @ 350VAC	0.0152	21.30	79	316	X	X
5.00	005.			0.0119	35.00	79	395	X	X

- 1. Cold resistance measured at less than 10% of rated current at 23°C.
- 2. I2t values slated for 10xIn opening time
- 3. If you have special electrical characteristic needs, please contact Littelfuse to discuss application specific options.

^{*} Largely based on Littelfuse internal AECQ-200 test plan



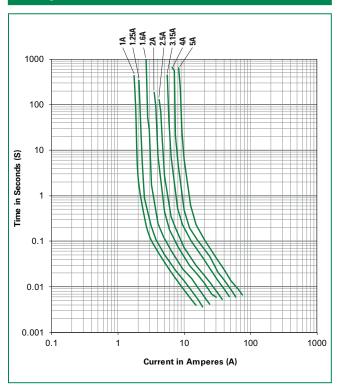
Temperature Re-rating Curve



Note:

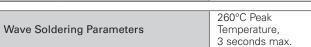
 Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

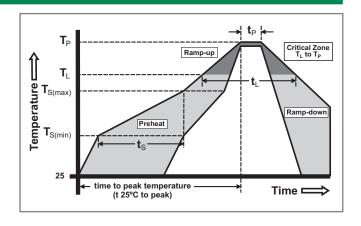
Average Time Current Curves



Soldering Parameters

Reflow Condition		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 - 120 secs	
Average ramp up rate (Liquidus Temp (T _L) to peak		5°C/second max.	
T _{S(max)} to T _L - Ramp-up Rate		5°C/second max.	
Reflow	-Temperature (T _L) (Liquidus)	217°C	
	-Temperature (t _L)	60 - 90 seconds	
PeakTemp	erature (T _P)	260+0/-5 °C	
Time within 5°C of actual peak Temperature (t _p)		20 - 40 seconds	
Ramp-down Rate		5°C/second max.	
Time 25°C to peakTemperature (T _P)		8 minutes max.	
Do not exceed		260°C	
		260°C Poak	





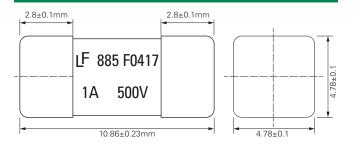
Surface Mount Fuses NANO^{2®} > 500 VDC Rated Fuse > 885 Series

Product Characteristics

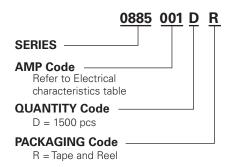
Materials	Body: Plastic UL 94 V-0 Cap: Tin Plated Brass	
Product Marking	Body: Brand Logo, Current Rating, Voltage Rating, Series, Date Code	
Solderability	JESD22-B102E Method 1	
Resistance to Soldering Heat	MIL-STD-202 Method 210 Test Condition K	

Operating Temperature	-40°C to +85°C with proper derating	
Climatic Category	IEC60068-1, -2-1, -2-2, -2-78 (-40°C to +85°C/21 days)	
Vibration	MIL-STD-202 Method 201 and 204	
Moisture Sensitivity Level	J-STD-020, Level 1	

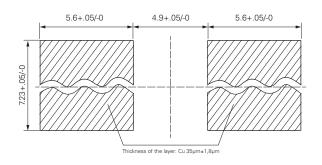
Dimensions



Part Numbering System



Recommended Pad Layout



Packaging

Packaging Option Packaging Specification		Quantity	Quantity & Packaging Code	
Tape and Reel	EIA-481-D	1500	D	

Disclaimer Notice - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at www.littelfuse.com/disclaimer-electronics.