

SinglFuse[™] SF-1206F Series Features

- Fast acting thin film chip fuse for overcurrent protection
- 3216 (EIA 1206) miniature footprint
- Surface mount packaging for automated assembly
- UL 248-14 compliant
- RoHS compliant* and halogen free**

SF-1206F Series - Fast Acting Surface Mount Fuses

Clearing Time Characteristics for Series

9/ of Current Poting	Clearing Time at 25 °C		
% of Current Rating	Min.	Max.	
100 %	4 hours	_	
200 %	_	60 seconds	

Additional Information

Click these links for more information:











Electrical Characteristics

Model	Rated Current (A)	Resistance (Ω) Typ.***	Rated Voltage	Interrupting Rating	Typical I²t (A²s) ****	Certifications		
						cUL: <u>E198545</u>		
SF-1206F050-2	0.50	0.517	63 VDC	63 VDC 50			0.011	✓
SF-1206F080-2	0.80	0.211				0.031	✓	
SF-1206F100-2	1.00	0.132			63 VDC	50 A @ 60 VDC	0.034	1
SF-1206F125-2	1.25	0.095				50 A @ 63 VDC	0.062	1
SF-1206F150-2	1.50	0.076				0.144	1	
SF-1206F200-2	2.00	0.0405			0.181	✓		
SF-1206F250-2	2.50	0.0315	32 VDC	32 VDC		0.351	1	
SF-1206F300-2	3.00	0.02325				0.501	1	
SF-1206F400-2	4.00	0.016			50 A @ 32 VDC	0.954	✓	
SF-1206F500-2	5.00	0.012			0.966	✓		
SF-1206F700-2	7.00	0.0075			3.25	✓		

Resistance value measured with ≤10 % rated current at 25 °C ambient. Tolerance ± 25 %.

Environmental Characteristics

Operating Temperature.....-20 °C to +105 °C Storage Conditions

^{****} Melting I2t calculated at 10 times rated current.

^{*}RoHS Directive 2015/863, Mar 31, 2015 and Annex.

^{**}Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (CI) content is 1500 ppm or less.

[&]quot;SinglFuse" is a trademark of Bourns, Inc.

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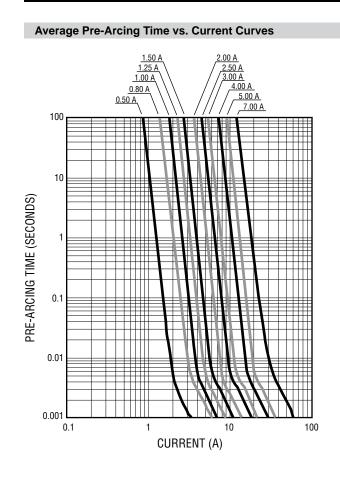
SinglFuse™ SF-1206F Series Applications

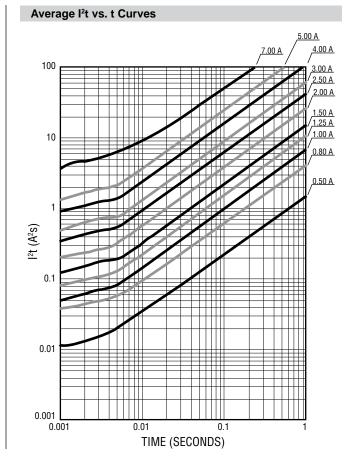
- Portable memory
- LCD monitors
- Disk drives
- PDAs
- Digital cameras
- DVDs

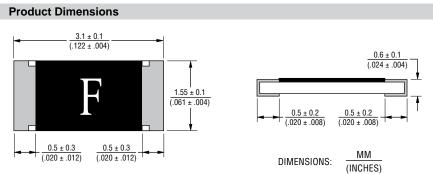
- Cell phones
- Rechargeable battery packs
- Battery chargers
- Set top boxes
- Industrial controllers

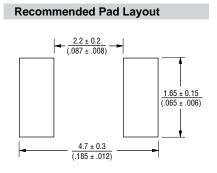
SF-1206F Series - Fast Acting Surface Mount Fuses

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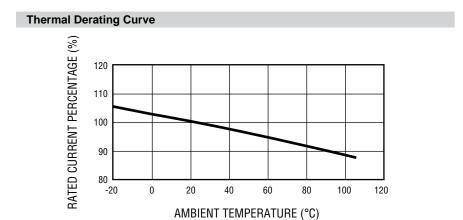






SF-1206F Series - Fast Acting Surface Mount Fuses

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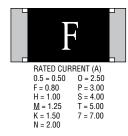
How to Order SF - 1206 F 050 - 2 SinglFuse™ Product Designator SMD Footprint 3216 (EIA 1206) size Fuse Blow Type F = Fast acting Rated Current 050-700 (500 mA - 7.00 A) Packaging Type 2 = Tape & Reel (5,000 pcs./reel)

Packaging

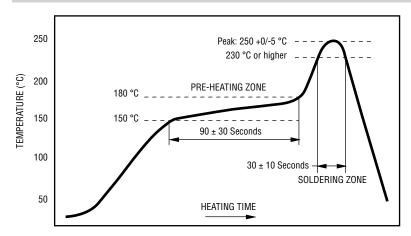
Reel Dimension	7-inch Tape and Reel	
Specification	EIA 481-2	
Quantity	5,000 pieces	
Packaging Code	-2	

Typical Part Marking

Represents total content. Layout may vary.



Solder Reflow Recommendations



PEAK: 250 +0/-5 °C, 5 seconds PRE-HEATING ZONE: 150 to 180 °C, 90 \pm 30 seconds SOLDERING ZONE: 230 °C or higher, 30 \pm 10 seconds

SF-1206F Series - Fast Acting Surface Mount Fuses

Reliability Testing

No.	Test	Requirement	Test Condition
1	Carrying Capacity	No fusing	Rated current, 4 hours
2	Fusing Time	Within 1 minute	200 % of its rated current
3	Interrupting Ability	No mechanical damages	After the fuse is interrupted, rated voltage applied for 30 seconds again
4	Bending Test	No mechanical damages	Distance between holding points: 90 mm, Bending: 3 mm, 1 time, 30 seconds
5	Resistance to Solder Heat	±20 %	260 °C ±5 °C,10 seconds ±1 second
6	Solderability	95 % coverage minimum	235 °C ±5 °C, 2 ±0.5 second 245 °C ±5 °C, 2 ±0.5 second (lead free)
7	Temperature Rise	<75 °C	100 % of its rated current, measure of surface temperature
8	Resistance to Dry Heat	±20 %	105 °C ±5 °C, 1000 hours
9	Resistance to Solvent	No evident damage on protective coating and marking	23 °C ±5 °C of isopropyl alcohol, 90 seconds
10	Residual Resistance	10k ohms or more	Measure DC resistance after fusing
11	Thermal Shock	ΔR < 10 %	-20 °C / +25 °C /+125 °C /+25 °C, 10 cycles

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