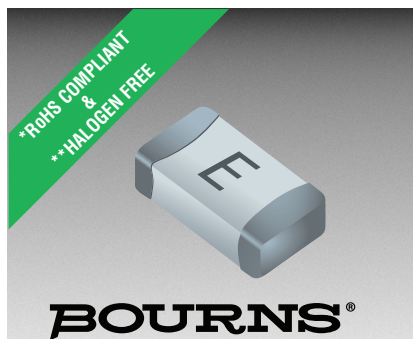




SinglFuse™ SF-1206HlxxxM Series Features

- Single blow fuse for overcurrent protection
- 3216 (EIA 1206) footprint
- High inrush current withstand fuse
- UL 248-14 listed
- RoHS compliant* and halogen free**
- Multilayer SMD design
- Surface mount packaging for automated assembly

SF-1206HlxxxM Series - High Inrush Multilayer Surface Mount Fuses

Electrical Characteristics

Model	Rated Current (Amps)	Fusing Time	Resistance (Ω) Typ.***	Rated Voltage	Interrupting Rating	Typical I ² t (A ² s) ****
SF-1206HI100M-2	1.00	Open within 60 sec. at 200 % rated current	0.340	DC 63 V	DC 63 V 50 A	0.11
SF-1206HI150M-2	1.50		0.150			0.33
SF-1206HI200M-2	2.00		0.090			0.80
SF-1206HI250M-2	2.50		0.065	DC 32 V	DC 32 V 50 A	1.19
SF-1206HI300M-2	3.00		0.035			1.35
SF-1206HI350M-2	3.50		0.029			1.84
SF-1206HI400M-2	4.00		0.023			2.74
SF-1206HI450M-2	4.50		0.021			3.20
SF-1206HI500M-2	5.00		0.017			5.50
SF-1206HI600M-2	6.00		0.013	DC 24 V	DC 24 V 80 A	12.50
SF-1206HI700M-2	7.00		0.010			30.00
SF-1206HI800M-2	8.00		0.009			60.00

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

**** Melting I²t calculated at 1000 % of current rating.

Reliability Testing

No.	Test	Requirement	Test Condition	Test Reference
1	Solderability	Minimum 95 % coverage	One dip at 245 °C for 5 seconds	MIL-STD-202 Method 208
2	Soldering heat resistance	DCR change ≤ 10 % No mechanical damage	One dip at 260 °C for 60 seconds	MIL-STD-202 Method 210
3	Moisture resistance	DCR change ≤ ±15 % No excessive corrosion	10 cycles	MIL-STD-202 Method 106
4	Salt spray	DCR change ≤ ±10 % No excessive corrosion	48 hour exposure, 5 % salt solution	MIL-STD-202 Method 101
5	Mechanical vibration	DCR change ≤ ±10 % No mechanical damage	0.4 inch D.A. or 30 G between 5-3000 Hz	MIL-STD-202 Method 204
6	Mechanical shock	DCR change ≤ ±10 % No mechanical damage	1500 G, 0.5 ms, half-sine shocks	MIL-STD-202 Method 213
7	Thermal Shock	DCR change ≤ ±10 % No mechanical damage	100 cycles between -65 °C and +125 °C	MIL-STD-202 Method 107
8	Life	No electrical "opens" during testing Voltage drop change shall be less than ±20 % of initial value	80 % rated current (75 % for < 1 A fuses) for 2000 hours at ambient temperature between +20 °C and +30 °C	Refer to STP document

Agency Recognition

UL File Number E198545

<http://www.ul.com/> Follow link to Online Certificates Directory, then enter UL File No. E198545, or [click here](#)

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* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

** 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 (Cl) content is 1500 ppm or less.

"SinglFuse" is a trademark of Bourns, Inc.

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.

SinglFuse™ SF-1206HlxxxM Series Applications

- Portable memory
- LCD monitors
- Disk drives
- PDAs
- Digital cameras
- MP3 players
- Cell phones
- Rechargeable battery packs
- Battery chargers
- Set-top boxes
- Industrial controllers
- Battery Management Systems (BMS)
- LED lighting
- Power tools

SF-1206HlxxxM Series - High Inrush Multilayer Surface Mount Fuses

BOURNS®

Environmental Characteristics

Operating Temperature.....	-55 °C to +150 °C
Storage Conditions	
Temperature	+5 °C to +35 °C
Humidity.....	40 % to 75 %
Shelf Life.....	2 years from manufacturing date
Moisture Sensitivity Level	1
ESD Classification (HBM).....	Class 6

Typical Part Marking

Represents total content. Layout may vary.



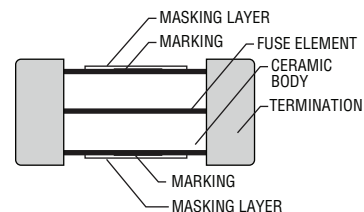
RATED CURRENT (A)	
E = 1.00	M = 4.00
G = 1.50	T = 4.50
I = 2.00	N = 5.00
J = 2.50	O = 6.00
K = 3.00	P = 7.00
L = 3.50	R = 8.00

How to Order

SF - 1206 HI 100 M - 2

SinglFuse™
 Product Designator
 SMD Footprint
 1206 = 3216 (EIA 1206) size
 Fuse Blow Type
 HI = High Inrush Capability
 Rated Current
 100 ~ 800 (1.0 A ~ 8.0 A)
 Structure Type
 M = Multilayer
 Packaging Type
 - 2 = Tape & Reel

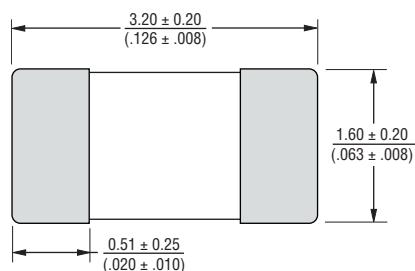
Construction



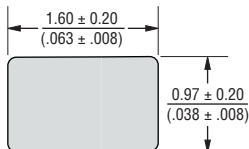
Packaging Quantity

3,000 pieces per 7-inch reel

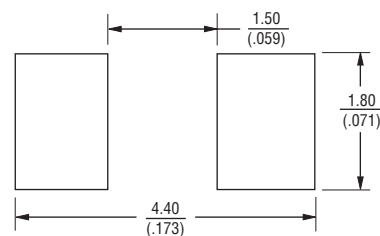
Product Dimensions



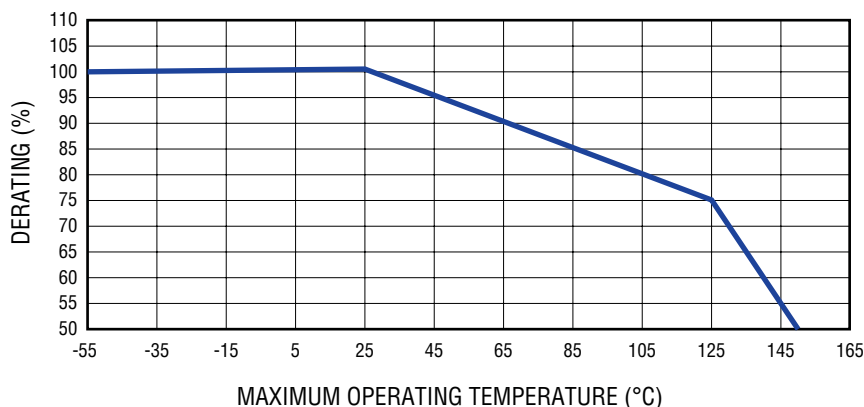
DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$



Recommended Pad Layout



Current Rating Thermal Derating Curve



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