Features

- High-inrush current withstand capability
- EIA 1206 (3216 metric) footprint
- AEC-Q200 compliant*
- UL 248-14 listed
- RoHS compliant** and halogen free***

BOURNS®

SF-1206HIA-M Series - Automotive Grade High-Inrush SMD Fuses

Clearing Time Characteristics for Series

% of Current Rating	Clearing Time @ 25 °C	
	Min.	Max.
100 %	4 hours	—
200 % (1 - 6 A)	1 second	60 seconds
350 % (0.5 - 0.75 A)	—	5 seconds

Additional Information

Click these links for more information:

PRODUCT | TECHNICAL LIBRARY | INVENTORY | SAMPLES

Electrical Characteristics

Model	Rated Current (A)	Resistance (Ω) Typ.*****	Rated Voltage	Interrupting Rating	Typical I^2t (A^2s) ******	Certifications cUL: E198545
SF-1206HIA050M-2	0.5	0.98	65 VDC	50 A @ 65 VDC	0.035	✓
SF-1206HIA075M-2	0.75	0.42			0.1	✓
SF-1206HIA100M-2	1.0	0.37	63 VDC	50 A @ 63 VDC	0.112	✓
SF-1206HIA150M-2	1.5	0.165			0.336	✓
SF-1206HIA200M-2	2.0	0.089			0.82	✓
SF-1206HIA300M-2	3.0	0.039	32 VDC	50 A @ 32 VDC	1.36	✓
SF-1206HIA350M-2	3.5	0.03			1.89	✓
SF-1206HIA400M-2	4.0	0.025			2.78	✓
SF-1206HIA450M-2	4.5	0.023			3.25	✓
SF-1206HIA600M-2	6.0	0.013	24 VDC	80 A @ 24 VDC	12.8	✓

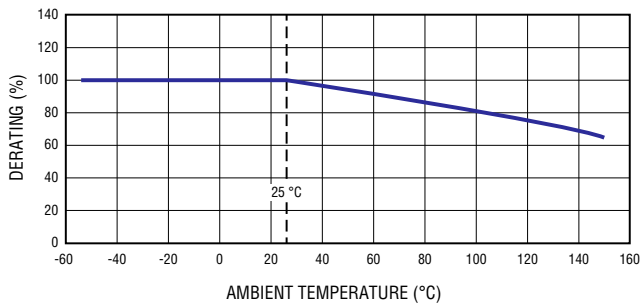
***** Resistance value measured with ≤10 % rated current at 25 °C ambient. Tolerance ± 25 %.
****** Melting I^2t calculated at 1000 % of current rating.

Environmental Characteristics

Operating Temperature	-55 °C to + 150 °C
Storage Conditions	
Temperature	+5 °C to +35 °C
Humidity	40 % to 75 %
Moisture Sensitivity Level	1
ESD Classification[1]	Class 6

[1]per AEC-Q200-2, HBM

Current Rating Thermal Derating Curve



WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

* Meets Bourns' internal AEC-Q200 equivalent test plan.
** 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 (Cl) content is 1500 ppm or less.

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Specifications are subject to change without notice.
Users should verify actual device performance in their specific applications.
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SF-1206HIA-M Series – Automotive Grade High-Inrush SMD Fuses

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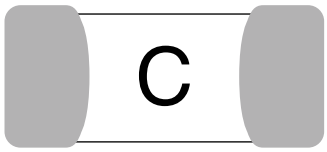
Typical Part Marking

Represents total content. Layout may vary.
Markings in green color.



Rated Current	Part Marking
0.5 A	C
0.75 A	D
1 A	E
1.5 A	G
2 A	I

Rated Current	Part Marking
3 A	K
3.5 A	L
4 A	M
4.5 A	T
6 A	O

How to Order

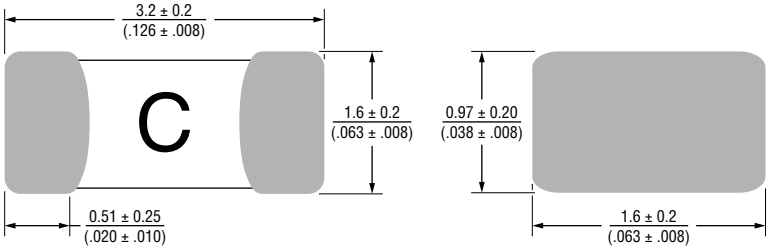
SF - 1206 HI A 050 M - 2

- SinglFuse™ Product Designator
- SMD Footprint
  1206 = EIA 1206 (3216 metric)
- Fuse Blow Type
  HI = High Inrush Current Withstand
- Automotive Grade
- Rated Current
  050 ~ 600 = 0.5 A ~ 6 A
- Structure Type
  M = Ceramic Multilayer
- Packaging Type
  - 2 = Tape & Reel

Packaging

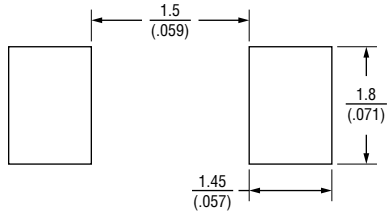
Reel Dimension	7-inch Tape and Reel
Specification	EIA 481-2
Quantity	3,000 pieces
Packaging Code	-2

Product Dimensions



DIMENSIONS: MM / (INCHES)

Recommended Pad Layout



DIMENSIONS: MM / (INCHES)

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