

Features

- High-inrush current withstand capability
- EIA 0603 (1608 metric) footprint
- AEC-Q200 compliant*
- UL 248-14 listed

Max.

60 seconds

RoHS compliant** and halogen free***

BOURNS

SF-0603HIA-M Series - Automotive Grade High-Inrush SMD Fuses

Clearing Time Characteristics for Series

Min.

4 hours

1 second

Additional	Information

Click these links for more information:



Electrical Characteristics

% of Current Rating

100 %

200 %

Model	Rated Current	Resistance	Rated	Interrupting	Typical I ² t	Certifications	
	(A)	(Ω) Typ.****	Voltage	Rating	(A²s) *****	cUL: <u>E198545</u>	
SF-0603HIA100M-2	1.0	0.24			0.082	1	
SF-0603HIA150M-2	1.5	0.115			0.112	1	
SF-0603HIA200M-2	2.0	0.06				0.245	1
SF-0603HIA300M-2	3.0	0.032		50 A @ 32 VDC	0.74	1	
SF-0603HIA350M-2	3.5	0.022	32 VDC	50 A @ 32 VDC	1.12	1	
SF-0603HIA400M-2	4.0	0.018				2.1	1
SF-0603HIA450M-2	4.5	0.015				2.68	1
SF-0603HIA500M-2	5.0	0.013			3.3	1	

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

Clearing Time @ 25 °C

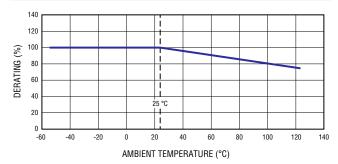
****** Melting I²t calculated at 1000 % of current rating.

Environmental Characteristics

Operating Temperature	-55 °C to + 125 °C
Storage Conditions	
Temperature	+5 °C to +35 °C
Humidity	40 % to 75 %
Moisture Sensitivity Level	1
ESD Classification ¹	Class 6

¹per AEC-Q200-2, HBM

Current Rating Thermal Derating Curve





- Meets Bourns' internal AEC-Q200 equivalent test plan.
- RoHS Directive 2015/863, Mar 31, 2015 and Annex.
- ^r 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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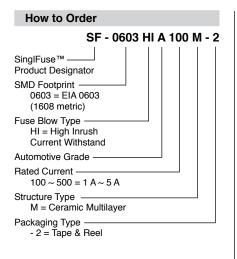
Typical Part Marking

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



Rated Current	Part Marking	Rated Current	Part Marking
1 A	Е	3.5 A	L
1.5 A	G	4 A	М
2 A	I	4.5 A	Т
3 A	К	5 A	N

Product Dimensions

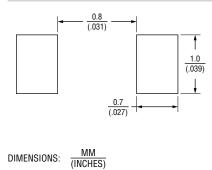


Packaging

Reel Dimension	7-inch Tape and Reel
Specification	EIA 481-2
Quantity	4,000 pieces
Packaging Code	-2

DIMENSIONS: $\frac{10101}{(INCHES)}$

Recommended Pad Layout



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