

## **Features**

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

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

## **Clearing Time Characteristics for Series**

% of Current	Clearing Time @ 25 °C		
Rating	Min.	Max.	
100 %	4 hours	_	
200 %	1 second	60 seconds	

## **Additional Information**

Click these links for more information:









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SAMPLE

## **Electrical Characteristics**

Model	Rated Current (A)	Resistance (Ω) Typ.*****	Rated Voltage	Interrupting Rating	Typical I <sup>2</sup> t (A <sup>2</sup> s) ******	Certifications cUL: E198545		
SF-0603HIA100M-2	1.0	0.24	32 VDC		0.082	✓		
SF-0603HIA150M-2	1.5	0.115		32 VDC 50		0.112	✓	
SF-0603HIA200M-2	2.0	0.06				0.245	✓	
SF-0603HIA300M-2	3.0	0.032			00.1/00	50 A @ 00 VDO	0.74	<b>✓</b>
SF-0603HIA350M-2	3.5	0.022			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		

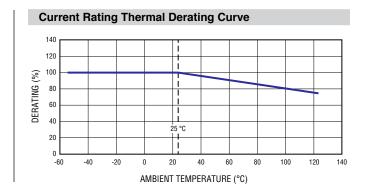
<sup>\*\*\*\*\*</sup> Resistance value measured with ≤10 % rated current at 25 °C ambient. Tolerance ± 25 %.

Class 6

**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<sup>1</sup>
per AEC-Q200-2, HBM





## 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.

"SinglFuse" is a trademark of Bourns, Inc.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

<sup>\*\*\*\*\*\*</sup> Melting I<sup>2</sup>t calculated at 1000 % of current rating.

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## **Typical Part Marking**

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



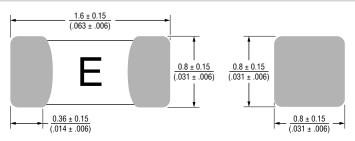
Rated Current	Part Marking
1 A	E
1.5 A	G
2 A	I
3 A	K

Rated Current	Part Marking
3.5 A	L
4 A	М
4.5 A	Т
5 A	N

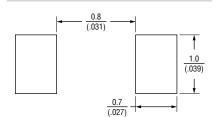
How to Order	
SF - 0603 HI A 100 M -	- 2
SinglFuse™ ————————————————————————————————————	
Fuse Blow Type  HI = High Inrush  Current Withstand	
Automotive Grade —————	
Rated Current ————————————————————————————————————	
Structure Type — M = Ceramic Multilayer	
Packaging Type ————————————————————————————————————	

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

## **Product Dimensions**



MM DIMENSIONS: (INCHES)



**Recommended Pad Layout** 

MM DIMENSIONS: (INCHES)