



SMD One Time Fuse  
Overcurrent Protectors

DOC.NO.: ISS-12 100 X

# INDIVIDUAL SPECIFICATION SHEET

**Product Name:** SMD One Time Fast Acting Fuse

**Part Number:** 12 100 Series

**Revision:** B



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3216FF1.5-R 1206 Fast Blow SMD Chip Encapsulation Surface Mount Fuses 32VAC DC 1.5A With

UL CSA RoHS Reach Approved

Rev.	Effective Date	Changed Contents
B	2014-12-18	0.25~4A, add new version IR50A 63VDC;0.25A~15A, rise breaking capacity from IR150A to IR300A;20A rise breaking capacity from IR20A to IR300A;25A rise breaking capacity from IR250A to IR300A

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PREPEARED BY

APPROVED BY

## Description

12 100 Series are fast blow fuses set the industry standard for performance, reliability and quality. The solder-free design provides excellent on-off and temperature cycling characteristics during use and also makes our SMD fuses more heat and shock tolerant than typical subminiature fuses.

## Features

- Rapid interruption of excessive current
- Compatible with reflow and wave solder
- Ceramic and glass construction
- One time positive disconnect
- Lead Free and Halogen free material



## Specifications

Electrical Characteristics			
Rated Current	1.0In	2.5In	3.5In
250mA~5A	4 hour min.	5 sec max.	-
6A~30A		-	5 sec max.

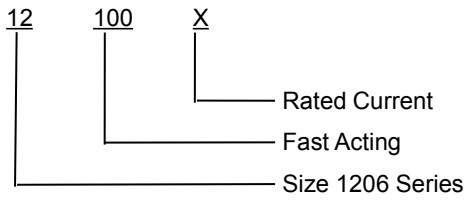
Part No.	Rated Voltage DC		Rated Current (A)	Breaking Capacity <sup>1</sup>				Typical Cold Resistance (mOhms) <sup>2</sup>	Typical Voltage Drop (mV)	Typical Pre-Arching I <sup>2</sup> t (A <sup>2</sup> Sec) <sup>3</sup> DC	Alpha Marking
				72 V	63 V	32 V	24V				
12 100 0.25	72 V	63 V	250mA	50 A	50 A	50 A	3608	1407	0.0004	.25	
12 100 0.375			375mA				1882	718	0.0008	E	
12 100 0.5			500mA				1028	650	0.0022	0.5	
12 100 0.75			750mA				601	616	0.0057	.75	
12 100 1			1A				490	510	0.10	H	
12 100 1.25			1.25A				165	184	0.021	▲	
12 100 1.5			1.5A				240	367	0.15	K	
12 100 2			2A				144	316	0.41	N	
12 100 2.5			2.5A				83	240	0.65	O	
12 100 3			3A				53	187	1.39	P	
12 100 3.5			3.5A				40	180	1.68	R	
12 100 4			4A				35	173	1.73	S	
12 100 4.5			4.5A				27	164	2.62	X	
12 100 5			5A				22	141	2.89	T	
12 100 6.5			6.5A				16	140	3.4	6.5	
12 100 7			7A				12	140	5.68	7	
12 100 10	10A	4.4	59	2.16	10						
12 100 12	12A	3.8	67	7.11	12						
12 100 15	15A	2.9	66	23.89	15						
12 100 20	20A	1.6	60	47.17	20						
12 100 25	25A	1.4	57	32	25						
12 100 30	30A	1	68	43	30						

\* DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)

\* DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C

\* Typical Pre-arching I<sup>2</sup>t are measured at 10In Current

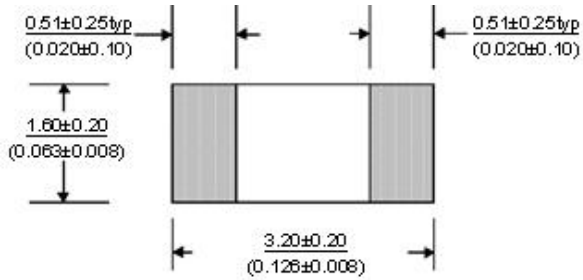
\*Part No. Description



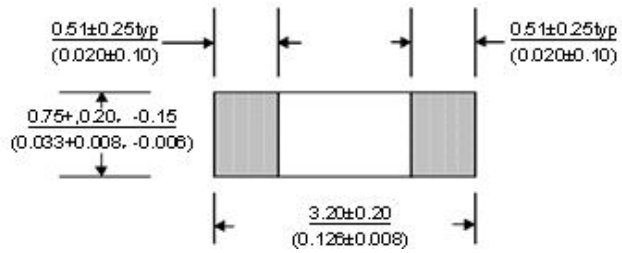
**Dimension**

Drawing not to scale(Unit: mm)

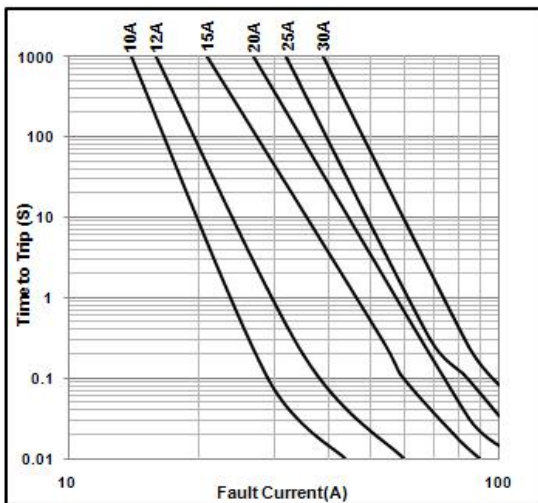
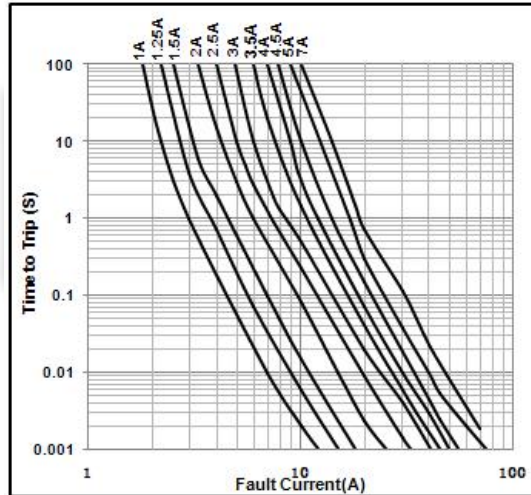
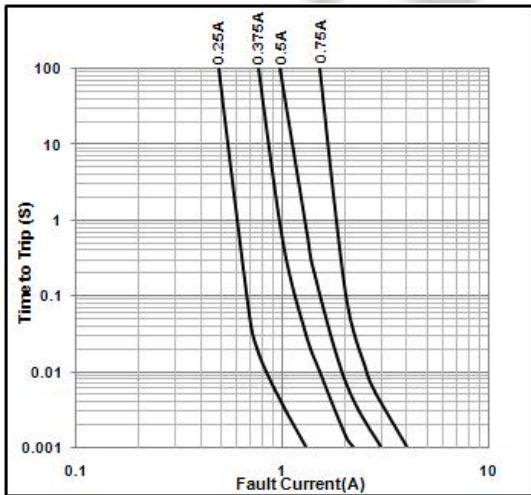
Top view



Side view



**Clear Time Curve**



**Environmental Characteristics**

Storage Conditions .....+40 °C Max. 70% RH Max. Packed in original packaging.

**Agency Approvals**

- Agency Approvals: UL E467707、CSA
- Regulation/Standard: RoHS, Reach

**Package information**

<u>Model</u>	<u>Q'ty/Reel</u>
12 100 X	3000 pcs

Note: Reel packaging per EIA-481-1 standard

