# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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#### SinglFuse<sup>™</sup> SF-1206S Series Features

- Single blow fuse for overcurrent protection
- 3216 (EIA 1206) miniature footprint
- Slow blow fuse
- UL listed
- RoHS compliant\* and halogen free\*\*
- Thin film chip fuse

## BOURNS

## SF-1206S Series - Slow Blow Surface Mount Fuses

#### **Electrical Characteristics**

Model	Rated Current (Amps)	Fusing Time	Resistance (mΩ) Typ.***	Rated Voltage	Breaking Capacity	Typical I²t (A²s)
SF-1206S050	0.50		596			0.030
SF-1206S080	0.80		165			0.068
SF-1206S100	1.00		132		DC 63 V	0.098
SF-1206S125	1.25		90	DC 63 V	50 A	0.155
SF-1206S150	1.50	<ul> <li>Open within 5 sec.</li> <li>at 250 % rated</li> </ul>	79			0.236
SF-1206S200	2.00		41			0.339
SF-1206S250	2.50	current	33			0.605
SF-1206S300	3.00		23	]		0.933
SF-1206S400	4.00		15.5	DC 32 V	DC 32 V	1.537
SF-1206S500	5.00		13	]	50 A	2.533
SF-1206S700	7.00	]	7			5.684

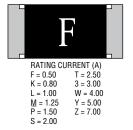
\*\*\*Resistance value was measured with less than 10 % of rated current. Resistance tolerance is ±25 %.

#### **Reliability Testing**

Parameter	Requirement	Test Method
Carrying Capacity	No fusing	Rated current, 4 hours
	Within 5 seconds	
Interrupting Ability	No mechanical damages	After the fuse is interrupted, rated voltage applied for
		30 seconds again
Bending Test	No mechanical damages	Distance between holding points: 90 mm,
		Bending: 3 mm,1time, 30 seconds
Resistance to Solder Heat	±20 %	260 °C ±5 °C,10 ±1 second
Solderability		235 °C ±5 °C, 2 ±0.5 second
		245 °C ±5 °C, 2 ±0.5 second (lead free)
Temperature Rise	<75 °C	100 % of its rated current, measure of surface
		temperature
Resistance to Dry Heat	±20 %	105 °C ±5 °C,1000 hours
Resistance to Solvent	No evident damage on protective	23 °C ±5 °C of isopropyl alcohol, 90 seconds
	coating and marking	
	10k W or more	
Thermal Shock	ΔR < 10 %	20 °C / +25 °C /+125 °C /+25 °C, 10 cycles

#### **Typical Part Marking**

Represents total content. Layout may vary.



#### How to Order

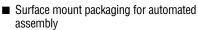
		SF - 12	06 S 05	50 - 2
SinglFuse™ Product	Designator			
SMD Footprint	size			
Fuse Blow Type — F = Fast Acting S = Slow Blow	FP = Fast Acting Precision SP = Time Lag		]	
Rated Current 050-700 (500 m/	A - 7.00 A)			
Packaging Type — - 2 = Tape & Ree	I (5,000 pcs./reel)			

RoHS Directive 2002/95/EC Jan 27 2003 including Annex.

\*\* Bourns is using the definition that appears to be the prevalent definition used as the industry standard at this time. The Bourns definition of "halogen-free" is: Bromine (Br) content: < 900 ppm; Chlorine (Cl) content: < 900 ppm; Total Br + Cl content: <1500 ppm.

"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.

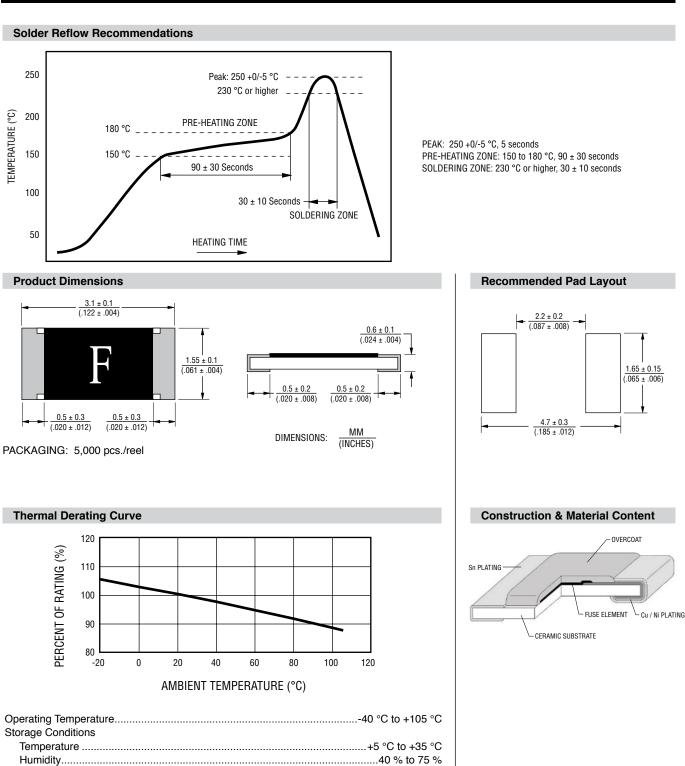


### SinglFuse<sup>™</sup> SF-1206S Series Applications

- Portable memory
- LCD monitors
- Disk drives
- PDAs
- **Digital cameras**
- DVDs

- Cell phones
- Rechargeable battery packs
- Battery chargers
- Set top boxes
- Industrial controllers

## SF-1206S Series - Slow Blow Surface Mount Fuses



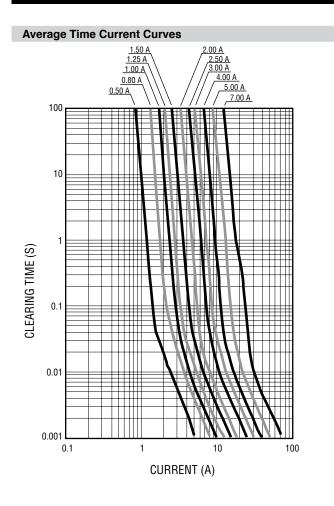
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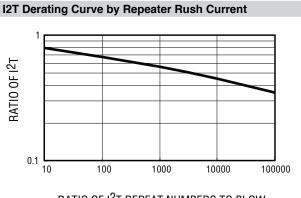
BOURNS

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## SF-1206S Series - Slow Blow Surface Mount Fuses

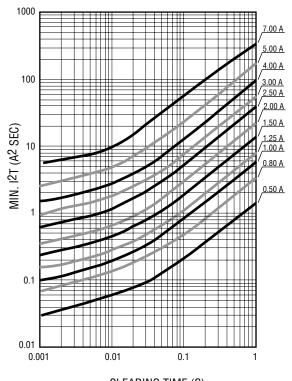
BOURNS





RATIO OF I<sup>2</sup>T REPEAT NUMBERS TO BLOW

## Minimum I<sup>2</sup>T V Clear Time Curves



CLEARING TIME (S)

#### REV. E 10/16

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## SF-1206S Series Tape and Reel Specifications

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### BOURNS

Tape Dimensions	SF-1206S Seri per EIA 481-	
W	$\frac{8.0 \pm 0.2}{(.315 \pm .008)}$	
20	4.0 ± 0.1 (.157 ± .004)	
21	$\frac{4.0 \pm 0.1}{(.157 \pm .004)}$	
52	$\frac{2.0 \pm 0.05}{(.079 \pm .002)}$	
A	$\frac{2.0 \pm 0.15}{(.079 \pm .006)}$	
3	$\frac{3.6 \pm 0.2}{(.142 \pm .008)}$	
:	$\frac{3.5 \pm 0.05}{(.138 \pm .002)}$	
Ē	$\frac{1.75 \pm 0.1}{(.069 \pm .004)}$	
D <sub>0</sub>	<u> 1.5 + 0.1/-0</u> (.059 + .004/-0)	
Т	$\frac{0.84 \pm 0.1}{(.033 \pm .004)}$	
Reel Dimensions		
4	<u> 180 +0/-3.0</u> (7.087 +0/118)	
3 Min.	<u>     60.0</u> (2.362)	
2	$\frac{13.0 \pm 1.0}{(.512 \pm .039)}$	
N	$\frac{9.0 \pm 1.0}{(.354 \pm .039)}$	
Г	$\frac{11.4 \pm 2.0}{(.449 \pm .079)}$	
 	DIMENSIONS: MM (INCHES)	
	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	

Specifications are subject to change without notice.

DIRECTION OF UNREELING -----

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-RESISTOR

PAPER TAPE