

SinglFuse™ SF-1206F Series Features

- Single blow fuse for overcurrent protection
- 3216 (EIA 1206) miniature footprint
- Fast acting fuse
- UL certified
- RoHS compliant* and halogen free**
- Thin film chip fuse
- Surface mount packaging for automated assembly

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

SF-1206F Series - Fast Acting Surface Mount Fuses

Electrical Characteristics

Model	Rated Current (Amps)	Fusing Time	Resistance (mΩ) Typ.***	Rated Voltage	Breaking Capacity	Typical I ² t (A ² s)
SF-1206F050	0.50	Open within 1 min. at 200 % rated current	590	DC 63 V	DC 63 V 50 A	0.011
SF-1206F080	0.80		225			0.031
SF-1206F100	1.00		130			0.034
SF-1206F125	1.25		88			0.062
SF-1206F150	1.50		65			0.144
SF-1206F200	2.00		38	DC 32 V	DC 32 V 50 A	0.181
SF-1206F250	2.50		32			0.351
SF-1206F300	3.00		23			0.501
SF-1206F400	4.00		15	DC 24 V	DC 24 V 50 A	0.954
SF-1206F500	5.00		11			0.966
SF-1206F700	7.00	7	3.25			

***Resistance value was measured with less than 10 % of rated current.

Reliability Testing

Parameter	Requirement	Test Method
Carrying Capacity	No fusing	Rated current, 4 hours
Fusing Time	Within 1 minute	200 % of its rated current
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 seconds ±1 second
Solderability	95 % coverage minimum	235 °C ±5 °C, 2 ±0.5 second 245 °C ±5 °C, 2 ±0.5 second (lead free)
Temperature Rise	<75 °	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
Residual Resistance	10k W or more	Measure DC resistance after fusing
Thermal Shock	DR < 10 %	-20 °C / +25 °C / +125 °C / +25 °C, 10 cycles

Typical Part Marking

Represents total content. Layout may vary.



RATING CURRENT (A)

F = 0.50	T = 2.50
K = 0.80	3 = 3.00
L = 1.00	W = 4.00
M = 1.25	Y = 5.00
P = 1.50	Z = 7.00
S = 2.00	

How to Order

SF - 1206 F 050 - 2

SinglFuse™
 Product Designator
 SMD Footprint
 3216 (1206) size
 Fuse Blow Type
 F = Fast acting
 S = Slow blow
 Rated Current
 050-700 (500 mA - 7.00 A)
 Packaging Type
 - 2 = Tape & Reel (5,000 pcs./reel)

BOURNS®

Asia-Pacific:
 Tel: +886-2 2562-4117
 Fax: +886-2 2562-4116

Europe:
 Tel: +41-41 768 5555
 Fax: +41-41 768 5510

The Americas:
 Tel: +1-951 781-5500
 Fax: +1-951 781-5700

www.bourns.com

* 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.

Customers should verify actual device performance in their specific applications.

SinglFuse™ SF-1206F Series Applications

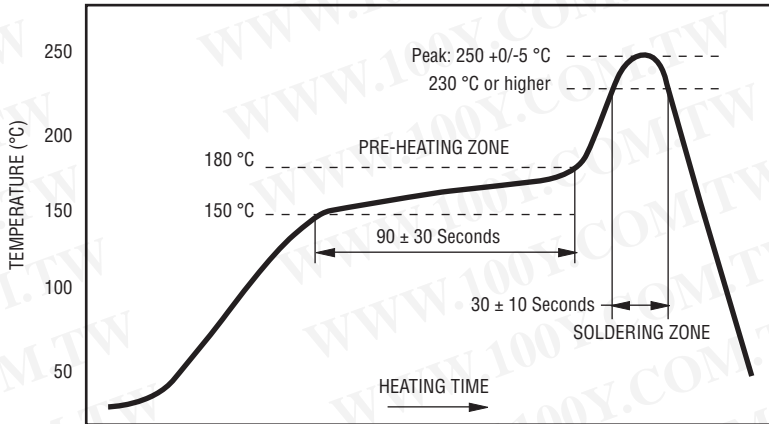
- Portable memory
- LCD monitors
- Disk drives
- PDAs
- Digital cameras
- DVDs
- Cell phones
- Rechargeable battery packs
- Battery chargers
- Set top boxes
- Industrial controllers

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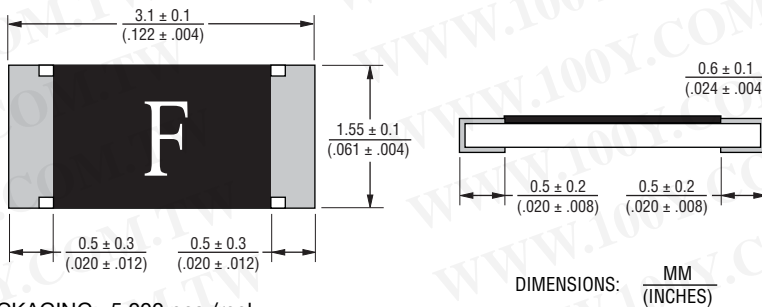


Solder Reflow Recommendations



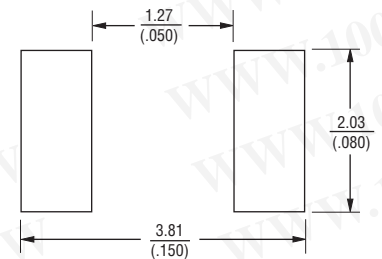
PEAK: 250 +0/-5 °C, 5 seconds
 PRE-HEATING ZONE: 150 to 180 °C, 90 ± 30 seconds
 SOLDERING ZONE: 230 °C or higher, 30 ± 10 seconds

Product Dimensions

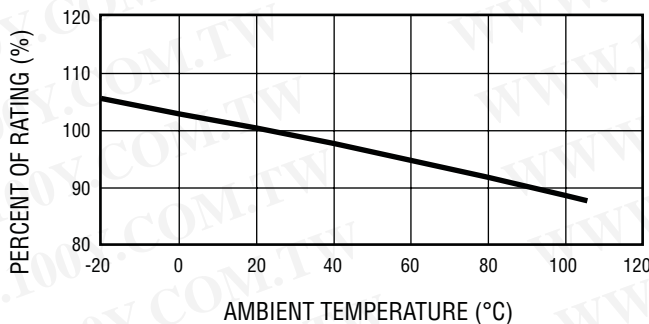


PACKAGING: 5,000 pcs./reel

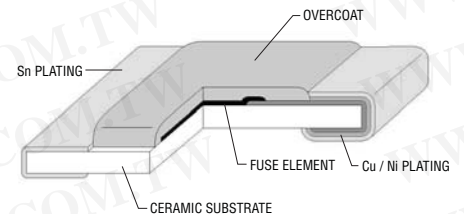
Recommended Pad Layout



Thermal Derating Curve



Construction & Material Content



Operating Temperature.....-40 °C to +105 °C
 Storage Conditions
 Temperature +5 °C to +35 °C
 Humidity40 % to 75 %
 Shelf Life.....2 years from manufacturing date

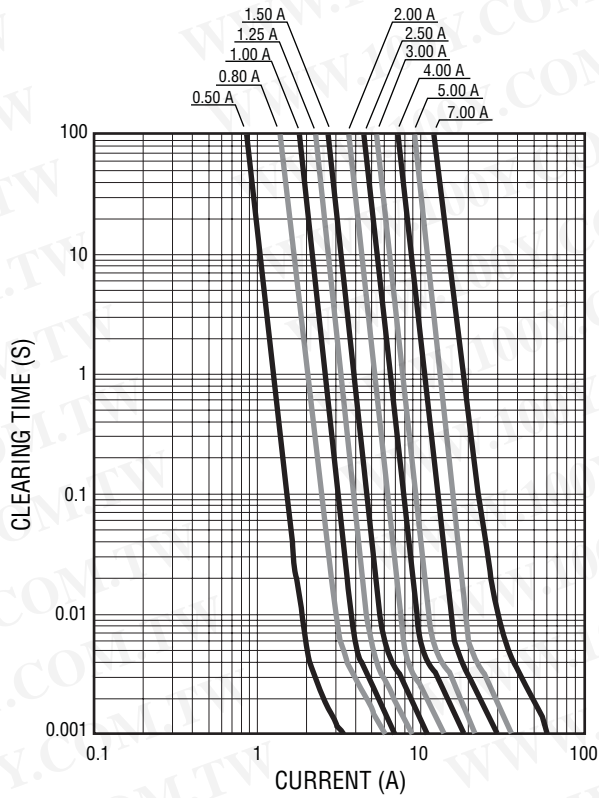
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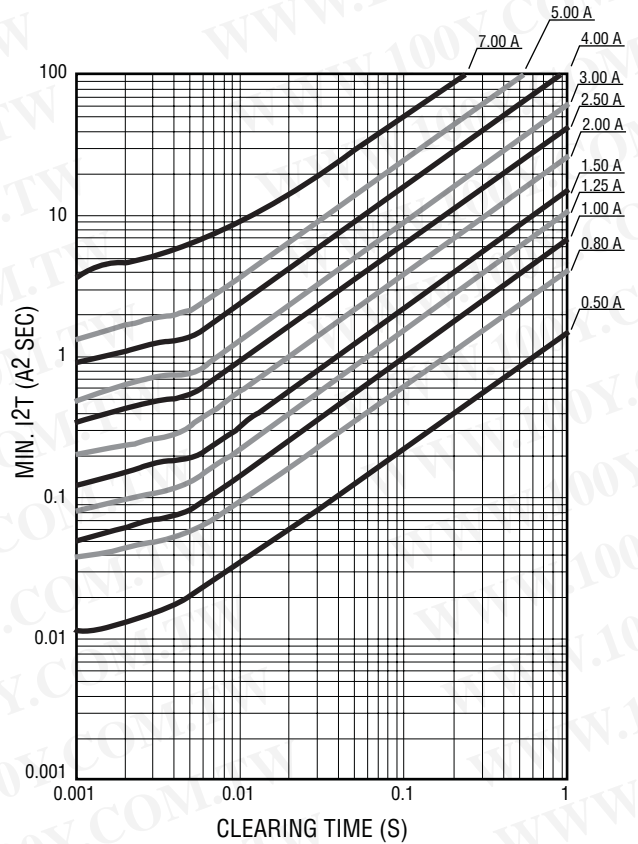
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Average Time Current Curves



Minimum I²T V Clear Time Curves



REV. C 12/20/10

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SF-1206F Series Tape and Reel Specifications

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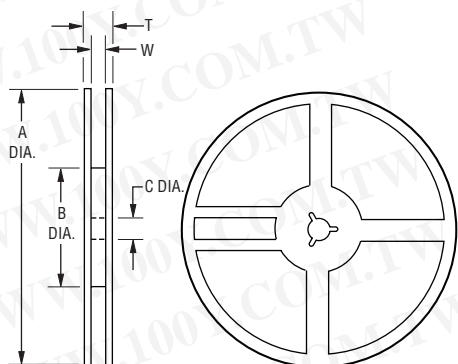
Tape Dimensions

SF-1206F Series per EIA 481-2

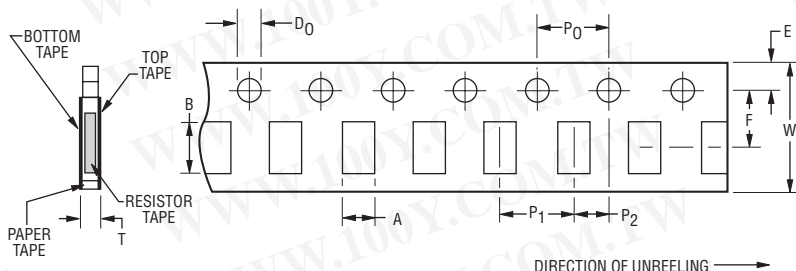
W	8.0 ± 0.2 (.315 ± .008)
P ₀	4.0 ± 0.1 (.157 ± .004)
P ₁	4.0 ± 0.1 (.157 ± .004)
P ₂	2.0 ± 0.05 (.079 ± .002)
A	2.0 ± 0.15 (.079 ± .006)
B	3.6 ± 0.2 (.142 ± .008)
F	3.5 ± 0.05 (.138 ± .002)
E	1.75 ± 0.1 (.069 ± .004)
D ₀	$1.5 + 0.1/-0$ (.059 + .004/-0)
T	0.84 ± 0.1 (.033 ± .004)

Reel Dimensions

A	$180 +0/-3.0$ (7.087 +0/-1.18)
B Min.	60.0 (2.362)
C	13.0 ± 1.0 (.512 ± .039)
W	9.0 ± 1.0 (.354 ± .039)
T	11.4 ± 2.0 (.449 ± .079)



DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$



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