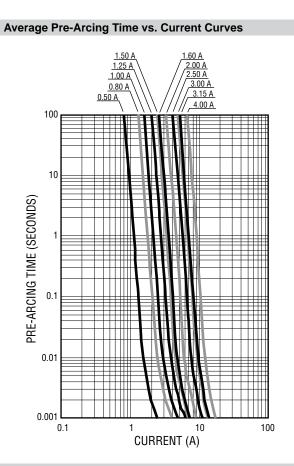
### SinglFuse<sup>™</sup> SF-0402S Series Applications

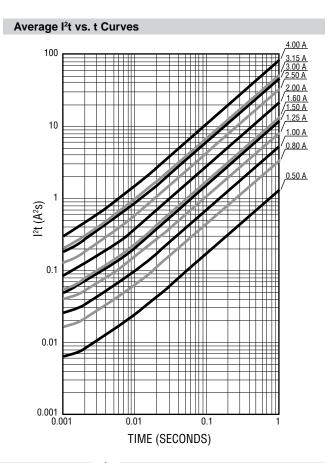
- Portable memory
- LCD monitors
- Disk drives
- PDAs
- Digital cameras
- DVDs

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

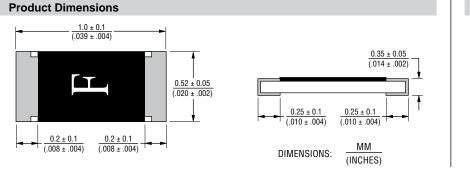
# SF-0402S Series - Slow Blow Surface Mount Fuses

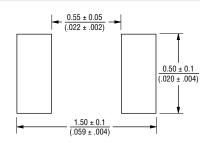






#### **Recommended Pad Layout**





Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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# SF-0402S Series - Slow Blow Surface Mount Fuses

#### **Thermal Derating Curve** RATED CURRENT PERCENTAGE (%) 120 110 100 90 80 -20 0 20 40 60 80 100 120 AMBIENT TEMPERATURE (°C)

#### 

Peak: 250 +0/-5 °C 230 °C or higher

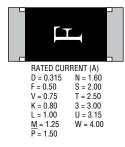
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#### Packaging

Reel Dimension	7-inch Tape and Reel
Specification	EIA 481-2
Quantity	10,000 pieces
Packaging Code	-2

#### **Typical Part Marking**

Represents total content. Layout may vary.



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

200 180 °C \_\_\_\_\_\_\_\_\_\_ 150 150 °C \_\_\_\_\_\_\_\_ 100 50 HEATING TIME

### Solder Reflow Recommendations

250

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# SF-0402S Series - Slow Blow Surface Mount Fuses

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### **Reliability Testing**

No.	Test	Requirement	Test Condition
1	Carrying Capacity	No fusing	Rated current, 4 hours
2	Fusing Time	Within 5 seconds	250 % of its rated current
3	Interrupting Ability	No mechanical damages	After the fuse is interrupted, rated voltage applied for 30 seconds again
4	Bending Test	No mechanical damages	Distance between holding points: 90 mm, Bending: 3 mm,1 time, 30 seconds
5	Resistance to Solder Heat	±20 %	260 °C ±5 °C,10 seconds ±1 second
6	Solderability	95 % coverage minimum	235 °C ±5 °C, 2 ±0.5 second 245 °C ±5 °C, 2 ±0.5 second (lead free)
7	Temperature Rise	<75 ° C	100 % of its rated current, measure of surface temperature
8	Resistance to Dry Heat	±20 %	105 °C ±5 °C,1000 hours
9	Resistance to Solvent	No evident damage on protective coating and marking	23 °C ±5 °C of isopropyl alcohol, 90 seconds
10	Residual Resistance	10k ohms or more	Measure DC resistance after fusing
11	Thermal Shock	ΔR < 10 %	-20 °C / +25 °C /+125 °C /+25 °C, 10 cycles

## BOURNS®

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