

## FEATURE

- Radial leaded devices.
- High voltage surge capabilities.
- Cured, flame retardant epoxy polymer insulating material
- meets UL94 V-0 requirements.
- Available in lead-free version.



## APPLICATIONS

- USB hubs, ports and peripherals
- IEEE1394 ports
- Computers & peripherals
- Motor protection
- General electronics
- Automotive applications
- Industrial controls
- Transformers

## PACKAGE DIMENSIONS

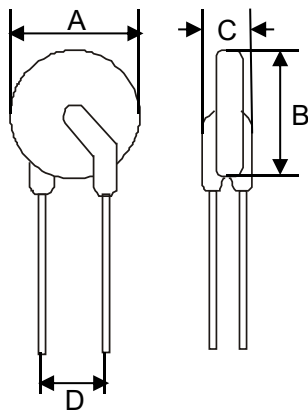


FIG 1

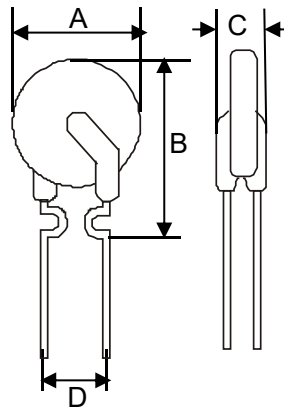


FIG 2

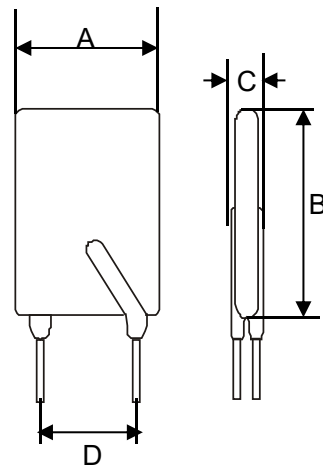


FIG 3

| Part Number | FIG | A(max) | B(max) | C(max) | D(typ) |
|-------------|-----|--------|--------|--------|--------|
| SB60-005    | 1   | 5.0    | 8.5    | 3.1    | 5.1    |
| SB60-010    | 1   | 5.5    | 9.5    | 3.1    | 5.1    |
| SB60-017    | 1   | 7.4    | 12.7   | 3.1    | 5.1    |
| SB60-020    | 1   | 7.4    | 12.7   | 3.1    | 5.1    |
| SB60-025    | 1   | 7.4    | 12.7   | 3.1    | 5.1    |
| SB60-030    | 1   | 7.4    | 13.0   | 3.1    | 5.1    |
| SB60-040    | 2   | 7.4    | 13.5   | 3.1    | 5.1    |
| SB60-050    | 2   | 7.6    | 13.5   | 3.1    | 5.1    |

| Part Number | FIG | A(max) | B(max) | C(max) | D(typ) |
|-------------|-----|--------|--------|--------|--------|
| SB60-065    | 2   | 9.4    | 14.5   | 3.1    | 5.1    |
| SB60-075    | 2   | 10.2   | 15.2   | 3.1    | 5.1    |
| SB60-090    | 2   | 11.2   | 15.8   | 3.1    | 5.1    |
| SB60-110-T  | 1   | 12.8   | 18.0   | 3.1    | 5.1    |
| SB60-110-U  | 3   | 13.0   | 18.0   | 3.1    | 5.1    |
| SB60-135    | 1   | 14.5   | 19.6   | 3.1    | 5.1    |
| SB60-160    | 1   | 16.3   | 21.3   | 3.1    | 5.1    |
| SB60-185    | 1   | 17.5   | 22.9   | 3.1    | 5.1    |
| SB60-200    | 1   | 17.8   | 22.9   | 3.1    | 5.1    |
| SB60-250    | 1   | 20.8   | 26.4   | 3.1    | 10.2   |
| SB60-300    | 1   | 23.9   | 30.0   | 3.1    | 10.2   |
| SB60-375    | 1   | 27.2   | 31.8   | 3.1    | 10.2   |

### ELECTRICAL CHARACTERISTICS

| Part Number | V <sub>max</sub><br>(V) | I <sub>max</sub><br>(A) | I <sub>h</sub><br>(A) | R <sub>max</sub><br>(Ω) | R <sub>min</sub><br>(Ω) | Pd<br>(W) |
|-------------|-------------------------|-------------------------|-----------------------|-------------------------|-------------------------|-----------|
| SB60-005    | 60                      | 40                      | 0.05                  | 20.0                    | 12.0                    | 0.30      |
| SB60-010    | 60                      | 40                      | 0.10                  | 7.50                    | 2.50                    | 0.38      |
| SB60-017    | 60                      | 40                      | 0.17                  | 5.21                    | 2.84                    | 0.48      |
| SB60-020    | 72                      | 40                      | 0.20                  | 2.84                    | 1.83                    | 0.41      |
| SB60-025    | 72                      | 40                      | 0.25                  | 1.95                    | 1.25                    | 0.45      |
| SB60-030    | 72                      | 40                      | 0.30                  | 1.36                    | 0.88                    | 0.49      |
| SB60-040    | 72                      | 40                      | 0.40                  | 0.88                    | 0.55                    | 0.56      |
| SB60-050    | 72                      | 40                      | 0.50                  | 0.79                    | 0.50                    | 0.77      |
| SB60-065    | 72                      | 40                      | 0.65                  | 0.50                    | 0.31                    | 0.88      |
| SB60-075    | 72                      | 40                      | 0.75                  | 0.42                    | 0.25                    | 0.92      |
| SB60-090    | 72                      | 40                      | 0.90                  | 0.33                    | 0.20                    | 0.99      |
| SB60-110    | 72                      | 40                      | 1.10                  | 0.27                    | 0.15                    | 1.50      |
| SB60-135    | 72                      | 40                      | 1.35                  | 0.21                    | 0.12                    | 1.70      |
| SB60-160    | 72                      | 40                      | 1.60                  | 0.16                    | 0.09                    | 1.90      |
| SB60-185    | 72                      | 40                      | 1.85                  | 0.14                    | 0.08                    | 2.10      |
| SB60-200    | 72                      | 40                      | 2.00                  | 0.14                    | 0.07                    | 2.30      |
| SB60-250    | 72                      | 40                      | 2.50                  | 0.10                    | 0.05                    | 2.50      |
| SB60-300    | 72                      | 40                      | 3.00                  | 0.08                    | 0.04                    | 2.80      |
| SB60-375    | 72                      | 40                      | 3.75                  | 0.07                    | 0.03                    | 3.20      |

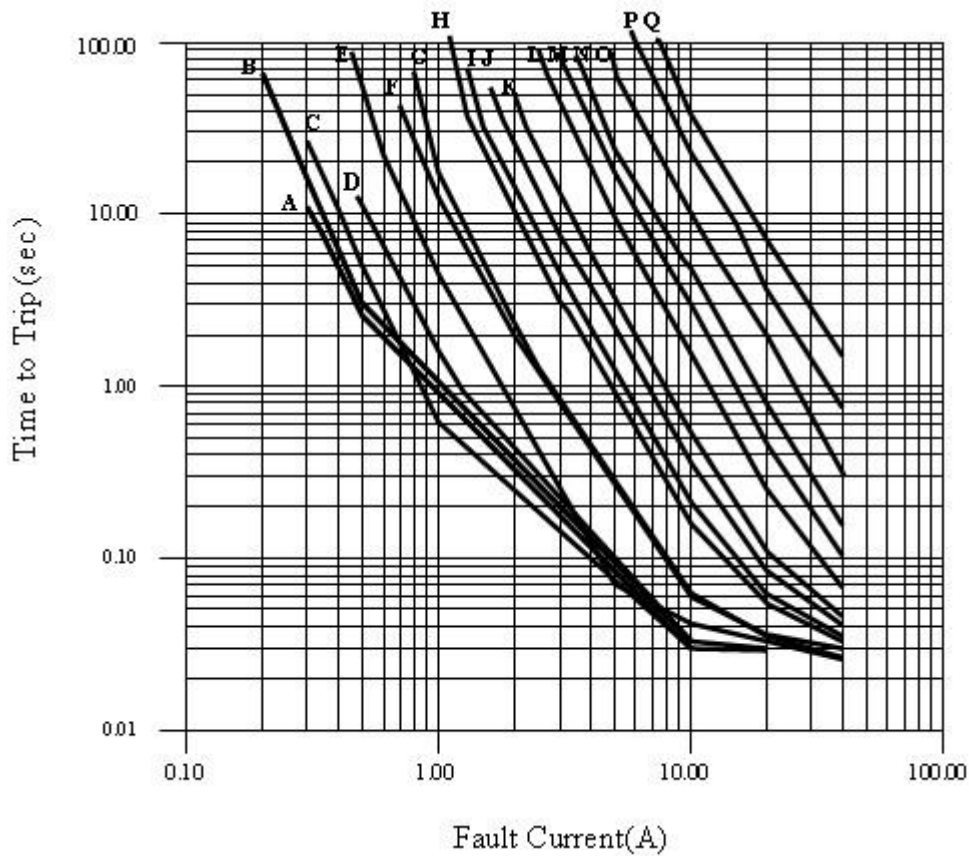
**THERMAL DERATING CHART – I<sub>H</sub>(A)**

| Part Number | -20℃ | 0℃   | 25℃  | 40℃  | 50℃  | 60℃  | 70℃  | 85℃  |
|-------------|------|------|------|------|------|------|------|------|
| SB60-005    | 0.07 | 0.06 | 0.05 | 0.04 | 0.04 | 0.03 | 0.03 | 0.02 |
| SB60-010    | 0.14 | 0.12 | 0.10 | 0.08 | 0.07 | 0.06 | 0.05 | 0.04 |
| SB60-017    | 0.23 | 0.20 | 0.17 | 0.14 | 0.12 | 0.11 | 0.09 | 0.07 |
| SB60-020    | 0.27 | 0.24 | 0.20 | 0.16 | 0.14 | 0.13 | 0.11 | 0.08 |
| SB60-025    | 0.34 | 0.30 | 0.25 | 0.20 | 0.18 | 0.16 | 0.14 | 0.10 |
| SB60-030    | 0.41 | 0.36 | 0.30 | 0.24 | 0.22 | 0.19 | 0.16 | 0.12 |
| SB60-040    | 0.54 | 0.48 | 0.40 | 0.32 | 0.29 | 0.25 | 0.22 | 0.16 |
| SB60-050    | 0.68 | 0.60 | 0.50 | 0.41 | 0.36 | 0.32 | 0.27 | 0.20 |
| SB60-065    | 0.88 | 0.77 | 0.65 | 0.53 | 0.47 | 0.41 | 0.35 | 0.26 |
| SB60-075    | 1.02 | 0.89 | 0.75 | 0.61 | 0.54 | 0.47 | 0.41 | 0.30 |
| SB60-090    | 1.22 | 1.07 | 0.90 | 0.73 | 0.65 | 0.57 | 0.49 | 0.36 |
| SB60-110    | 1.50 | 1.31 | 1.10 | 0.89 | 0.79 | 0.69 | 0.59 | 0.44 |
| SB60-135    | 1.84 | 1.61 | 1.35 | 1.09 | 0.97 | 0.85 | 0.73 | 0.54 |
| SB60-160    | 2.18 | 1.90 | 1.60 | 1.30 | 1.15 | 1.01 | 0.86 | 0.64 |
| SB60-185    | 2.52 | 2.20 | 1.85 | 1.50 | 1.33 | 1.17 | 1.00 | 0.74 |
| SB60-200    | 2.72 | 2.38 | 2.00 | 1.80 | 1.62 | 1.44 | 1.26 | 0.80 |
| SB60-250    | 3.40 | 2.98 | 2.50 | 2.03 | 1.80 | 1.58 | 1.35 | 1.00 |
| SB60-300    | 4.08 | 3.57 | 3.00 | 2.43 | 2.18 | 1.89 | 1.62 | 1.20 |
| SB60-375    | 5.10 | 4.46 | 3.75 | 3.04 | 2.70 | 2.36 | 2.03 | 1.50 |

**TEST PROCEDURES AND REQUIREMENT**

| Test            | Test Conditions                    | Accept/Reject Criteria                |
|-----------------|------------------------------------|---------------------------------------|
| Resistance      | In still air @25℃                  | $R_{min} \leq R \leq R_{max}$         |
| Time to Trip    | 5times, I hold, $V_{max}$ , 25℃    | $T \leq \max$ . Time to trip(seconds) |
| Hold Current    | 1H, AT I hold, 25℃                 | No trip                               |
| Trip Cycle Life | $V_{max}$ , $I_{max}$ , 100 cycles | No arcing or burning                  |
| Trip Endurance  | $V_{max}$ , 48hours                | No arcing or burning                  |

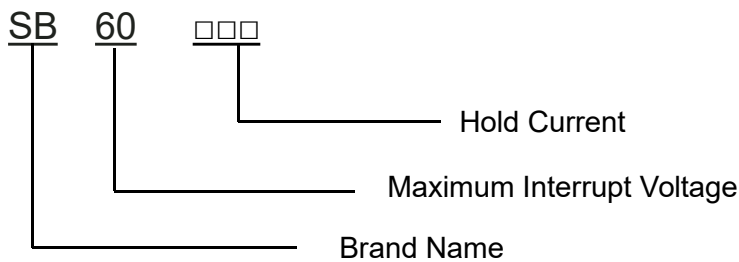
**TYPICAL TIME-TO-TRIP CHARTS @ 25°C**



**STORAGE RECOMMENDATIONS**

- Storage Temperature : -10 °C ~+40 °C
- Relative Humidity :80%RH

**ORDERING INFORMATION**



**PACKAGING**

| Part Number | Quantity |
|-------------|----------|
| SB 60-xxx   | 1000/500 |

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