

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

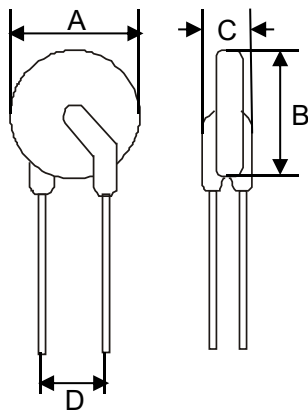


FIG 1

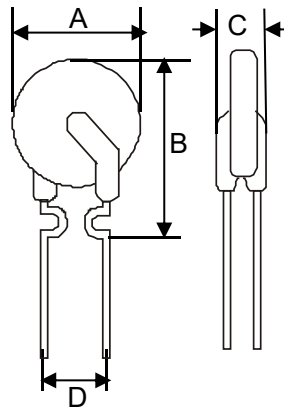


FIG 2

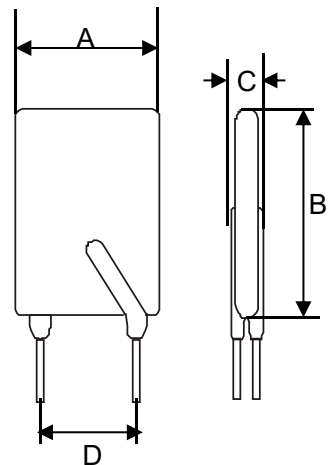


FIG 3

| 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 _{max} (V) | I _{max} (A) | I _h (A) | R _{max} (Ω) | R _{min} (Ω) | Pd (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 |

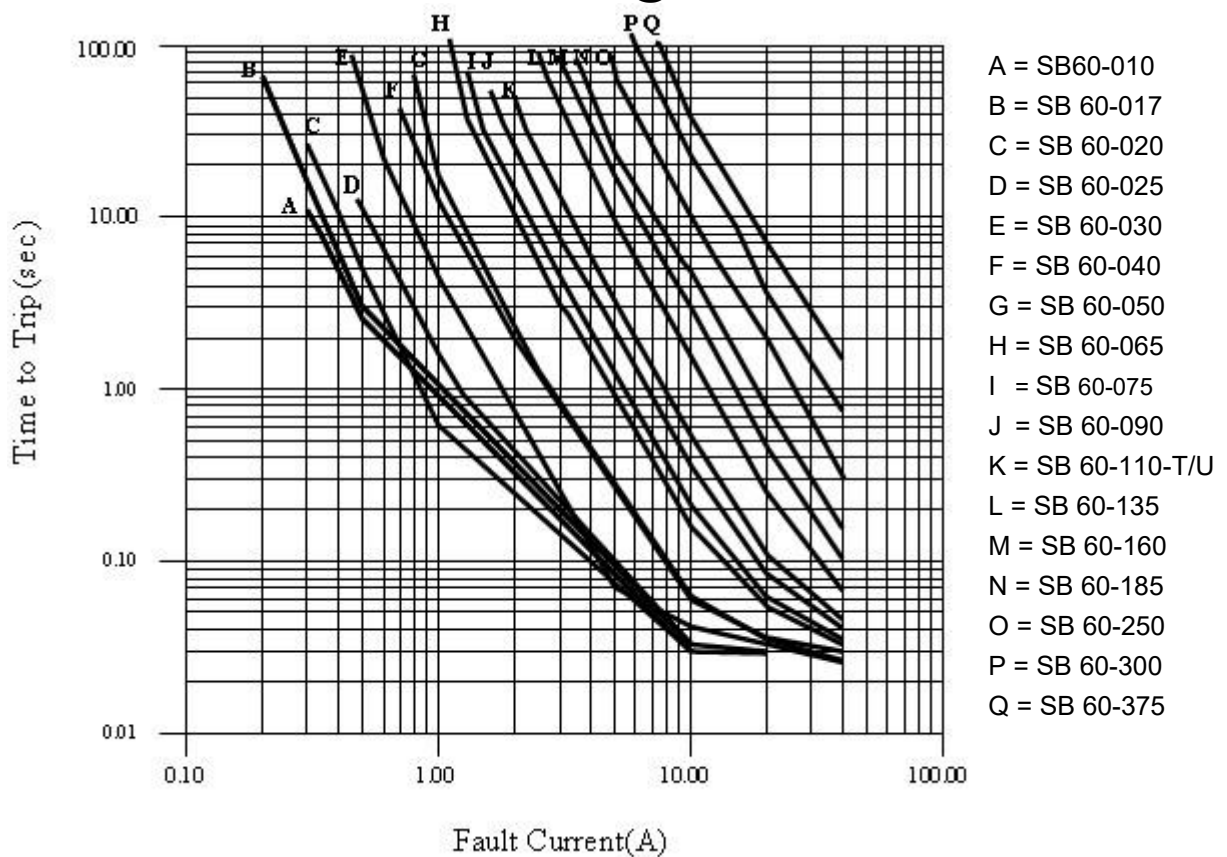
THERMAL DERATING CHART – I_H(A)

| 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 |

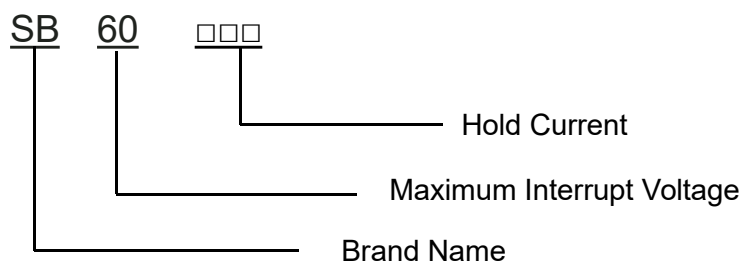
TYPICAL TIME-TO-TRIP CHARTS @ 25°C



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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