

# Type RS60RB

## Resettable Fuse (PTC's)

### Radial Leaded



www.optifuse.com

(619) 593-5050

#### Application:

Wide variety of electronic equipment

#### Product Features:

Low hold current, Solid State

Radial-leaded product ideal for up to 60V

**Operation Current:** 50mA~3.75A

**Maximum Voltage:** 60V

**Temperature Range:** -40°C to 85°C

#### Agency Standards and Listings:



#### Electrical Characteristics (23°C)

| Part Number | Hold Current | Trip Current | Max. Time To Trip | Maximum Current | Rated Voltage | Typical Power | Resistance Tolerance |                   |
|-------------|--------------|--------------|-------------------|-----------------|---------------|---------------|----------------------|-------------------|
|             |              |              |                   |                 |               |               | R <sub>MIN</sub>     | R <sub>1MAX</sub> |
|             |              |              |                   |                 |               |               | Ω                    | Ω                 |
| RS60RB-005  | 0.05         | 0.10         | 5.0               | 40              | 60            | 0.26          | 7.30                 | 20.0              |
| RS60RB-010  | 0.10         | 0.20         | 4.0               | 40              | 60            | 0.38          | 2.50                 | 7.50              |
| RS60RB-017  | 0.17         | 0.34         | 3.0               | 40              | 60            | 0.48          | 2.00                 | 7.00              |
| RS60RB-020  | 0.20         | 0.40         | 2.2               | 40              | 60            | 0.41          | 1.83                 | 4.40              |
| RS60RB-025  | 0.25         | 0.50         | 2.5               | 40              | 60            | 0.45          | 1.25                 | 3.00              |
| RS60RB-030  | 0.30         | 0.60         | 3.0               | 40              | 60            | 0.49          | 0.88                 | 2.10              |
| RS60RB-040  | 0.40         | 0.80         | 3.8               | 40              | 60            | 0.56          | 0.55                 | 1.29              |
| RS60RB-050  | 0.50         | 1.00         | 4.0               | 40              | 60            | 0.77          | 0.50                 | 1.17              |
| RS60RB-065  | 0.65         | 1.30         | 5.3               | 40              | 60            | 0.88          | 0.31                 | 0.72              |
| RS60RB-075  | 0.75         | 1.50         | 6.3               | 40              | 60            | 0.92          | 0.25                 | 0.60              |
| RS60RB-090  | 0.90         | 1.80         | 7.2               | 40              | 60            | 0.99          | 0.20                 | 0.47              |
| RS60RB-110  | 1.10         | 2.20         | 8.2               | 40              | 60            | 1.50          | 0.15                 | 0.38              |
| RS60RB-135  | 1.35         | 2.70         | 9.6               | 40              | 60            | 1.70          | 0.12                 | 0.30              |
| RS60RB-160  | 1.60         | 3.20         | 11.4              | 40              | 60            | 1.90          | 0.09                 | 0.22              |
| RS60RB-185  | 1.85         | 3.70         | 12.6              | 40              | 60            | 2.10          | 0.08                 | 0.19              |
| RS60RB-250  | 2.50         | 5.00         | 15.6              | 40              | 60            | 2.50          | 0.05                 | 0.13              |
| RS60RB-300  | 3.00         | 6.00         | 19.8              | 40              | 60            | 2.80          | 0.04                 | 0.10              |
| RS60RB-375  | 3.75         | 7.50         | 24.0              | 40              | 60            | 3.20          | 0.03                 | 0.08              |

**I<sub>H</sub>** = Hold Current – Maximum current at which the device will not trip at 23°C still air.

**I<sub>T</sub>** = Trip Current – Minimum current at which the device will always trip at 23°C still air.

**V<sub>MAX</sub>** = Maximum voltage device can withstand without damage at it's rated current.

**I<sub>MAX</sub>** = Maximum fault current device can withstand without damage at rated voltage (V max).

**Pd** = Typical power dissipated from device when in the tripped state in 23°C still air environment.

**R<sub>MIN</sub>** = Minimum device resistance at 23°C.

**R<sub>1MAX</sub>** = Maximum device resistance at 23°C, 1 hour after tripping.

Note: All specifications subject to change without notice.

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#### Physical Specifications:

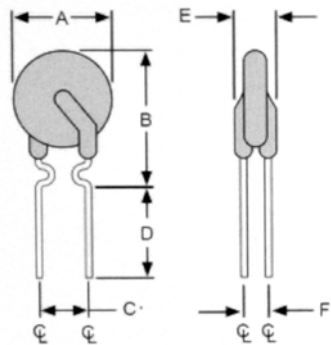
**Lead Material:** RS60RB-005 ~ RS60RB-090: Tin plated copper, 24 AWG.

RS60RB-110 ~ RS60RB-375: Tin plated copper, 20 AWG.

**Soldering Characteristics:** MIL-STD-202, Method 208E.

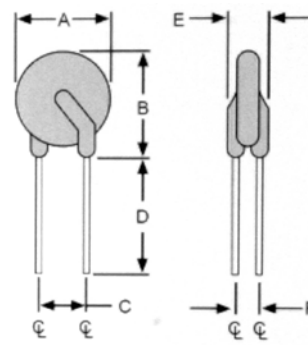
**Insulating Coating:** Flame retardant epoxy, meet UL-94V-0 requirement.

#### RS60RB Product Dimensions (millimeters)



**RS60RB-005 ~ RS60RB-090**

Lead Size: 24AWG,  
0.51 mm Diameter



**RS60RB-110 ~ RS60RB-375**

Lead Size: 20AWG,  
0.81 mm Diameter

| Part Number | A       | B       | C       | D       | E       | F       |
|-------------|---------|---------|---------|---------|---------|---------|
|             | Maximum | Maximum | Typical | Minimum | Maximum | Typical |
| RS60RB-005  | 7.4     | 12.7    | 5.1     | 7.6     | 3.1     | 1.1     |
| RS60RB-010  | 7.4     | 12.7    | 5.1     | 7.6     | 3.1     | 1.1     |
| RS60RB-017  | 7.4     | 12.7    | 5.1     | 7.6     | 3.1     | 1.1     |
| RS60RB-020  | 7.4     | 12.7    | 5.1     | 7.6     | 3.1     | 1.1     |
| RS60RB-025  | 7.4     | 12.7    | 5.1     | 7.6     | 3.1     | 1.1     |
| RS60RB-030  | 7.4     | 13.0    | 5.1     | 7.6     | 3.1     | 1.1     |
| RS60RB-040  | 7.6     | 13.5    | 5.1     | 7.6     | 3.1     | 1.1     |
| RS60RB-050  | 7.9     | 13.7    | 5.1     | 7.6     | 3.1     | 1.1     |
| RS60RB-065  | 9.7     | 14.5    | 5.1     | 7.6     | 3.1     | 1.1     |
| RS60RB-075  | 10.4    | 15.2    | 5.1     | 7.6     | 3.1     | 1.1     |
| RS60RB-090  | 11.7    | 15.8    | 5.1     | 7.6     | 3.1     | 1.1     |
| RS60RB-110  | 13.0    | 18.0    | 5.1     | 7.6     | 3.1     | 1.4     |
| RS60RB-135  | 14.5    | 19.6    | 5.1     | 7.6     | 3.1     | 1.4     |
| RS60RB-160  | 16.3    | 21.3    | 5.1     | 7.6     | 3.1     | 1.4     |
| RS60RB-185  | 17.8    | 22.9    | 5.1     | 7.6     | 3.1     | 1.4     |
| RS60RB-250  | 21.3    | 26.4    | 10.2    | 7.6     | 3.1     | 1.4     |
| RS60RB-300  | 24.9    | 30.0    | 10.2    | 7.6     | 3.1     | 1.4     |
| RS60RB-375  | 28.5    | 33.5    | 10.2    | 7.6     | 3.1     | 1.4     |

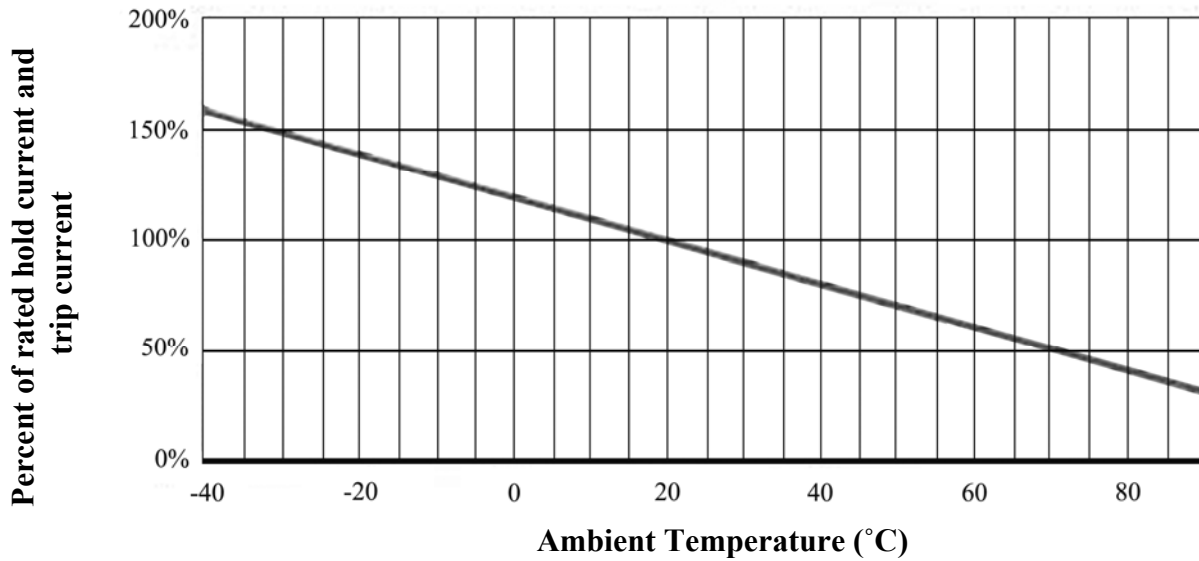
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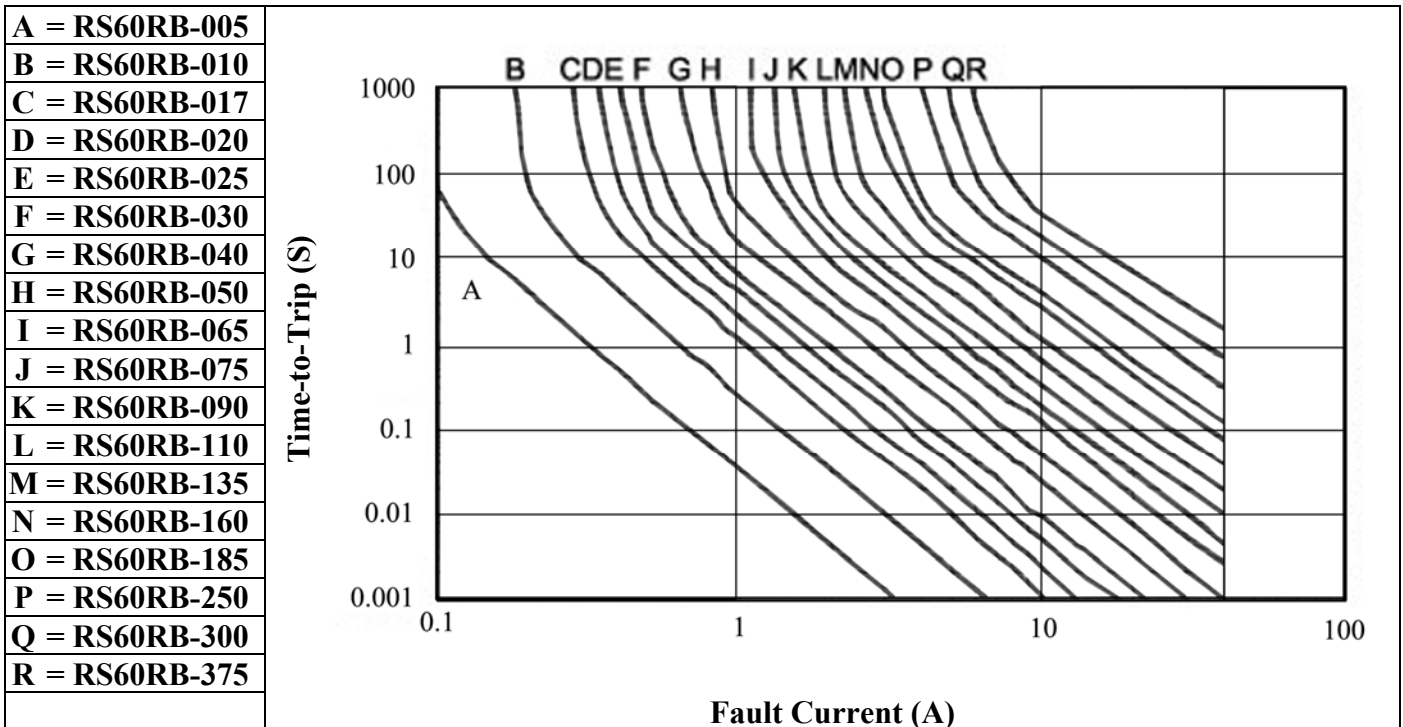


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**Thermal Derating Curve – Type RS60RB**



**Typical Time-To-Trip at 23°C**



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**Standard Package**

| Part Number | Pcs/Bag | Reel/Tape |
|-------------|---------|-----------|
| RS60RB-005  | 500     | 3K        |
| RS60RB-010  | 500     | 3K        |
| RS60RB-017  | 500     | 3K        |
| RS60RB-020  | 500     | 3K        |
| RS60RB-025  | 500     | 3K        |
| RS60RB-030  | 500     | 3K        |
| RS60RB-040  | 500     | 3K        |
| RS60RB-050  | 500     | 3K        |
| RS60RB-065  | 300     | 3K        |
| RS60RB-075  | 300     | 3K        |
| RS60RB-090  | 300     | 3K        |
| RS60RB-110  | 300     | 1.5K      |
| RS60RB-135  | 200     | 1.5K      |
| RS60RB-160  | 200     | 1.5K      |
| RS60RB-185  | 200     | 1.5K      |
| RS60RB-250  | 100     | ---       |
| RS60RB-300  | 100     | ---       |
| RS60RB-375  | 100     | ---       |

**Warning:**



-Operation beyond the specified maximum ratings or improper use may result in damage and possible electrical arcing and/or flame.  
-PPTC device are intended for occasional overcurrent protection. Application for repeated overcurrent condition and/or prolonged trip are not anticipated.  
-Avoid contact of PPTC device with chemical solvent. Prolonged contact will damage the device performance.

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