Type RS60SB
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: 500mA~5.00A
Maximum Voltage: 60V
Temperature Range: -40ºC to 85ºC

Electrical Characteristics (20ºC)

Part Number	Hold Current	Trip Current	Max. Time To Trip		Maximum Current	Rated Voltage	Typical Power	Resistance Tolerance	
								R_{MIN}	$R1_{MAX}$
	I_H, A	I_T, A	I, A	Time(sec)	I_{MAX}, A	V_{MAX}, V	Pd, W	Ω	Ω
RS60SB-050	0.50	1.00	8.00	0.8	40	60	1.00	0.320	0.900
RS60SB-065	0.65	1.30	8.00	1.0	40	60	1.25	0.250	0.720
RS60SB-075	0.75	1.50	8.00	1.5	40	60	1.40	0.200	0.640
RS60SB-090	0.90	1.80	8.00	2.0	40	60	1.50	0.190	0.520
RS60SB-110	1.10	2.20	8.00	3.0	40	60	2.20	0.170	0.470
RS60SB-135	1.35	2.70	8.00	4.5	40	60	2.30	0.110	0.370
RS60SB-160	1.60	3.20	8.20	9.0	40	60	2.40	0.100	0.320
RS60SB-185	1.85	3.70	9.25	12.6	40	60	2.60	0.060	0.250
RS60SB-250	2.50	5.00	12.50	15.6	40	60	2.80	0.040	0.140
RS60SB-300	3.00	6.00	15.00	19.8	40	60	3.20	0.030	0.080
RS60SB-375	3.75	7.50	18.75	22.0	40	60	3.40	0.017	0.060
RS60SB-400	4.00	8.00	20.00	24.0	40	60	3.70	0.014	0.060
RS60SB-500	5.00	10.00	25.00	28.0	40	60	5.00	0.012	0.050

I_H = Hold Current – Maximum current at which the device will not trip at 20ºC still air.
I_T = Trip Current – Minimum current at which the device will always trip at 20ºC still air.
V_{MAX} = Maximum voltage device can withstand without damage at it's rated current.
I_{MAX} = 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 20ºC still air environment.
R_{MIN} = Minimum device resistance at 20ºC.
$R1_{MAX}$ = Maximum device resistance at 20ºC, 1 hour after tripping.

Physical Specifications:

Lead Material: Tin plated copper, 24 AWG, 20 AWG.
Soldering Characteristics: MIL-STD-202, Method 208E.
Insulating Coating: Flame retardant epoxy, meet UL-94V-0 requirement.

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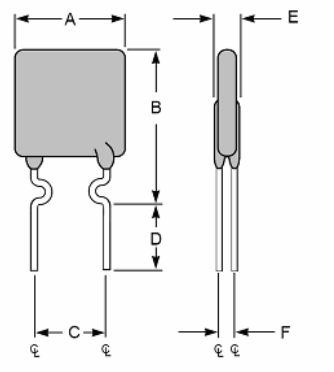
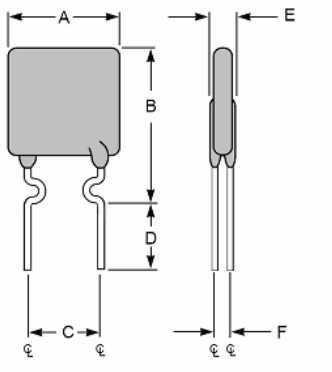
RS60SB Product Dimensions (millimeters)

Figure 1



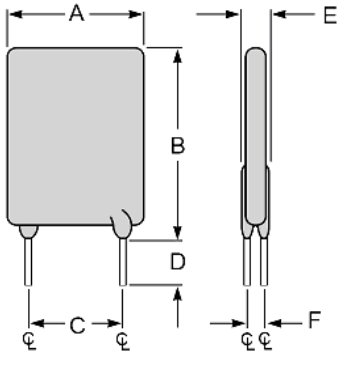
RS60SB-050 ~ RS60SB-090
Lead Size: 24AWG,
0.51 mm Diameter

Figure 2



RS60SB-110
Lead Size: 20AWG,
0.81 mm Diameter

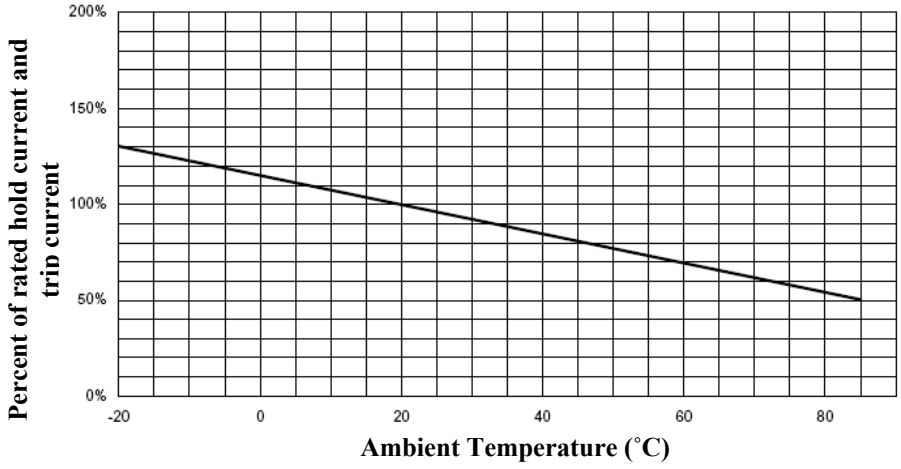
Figure 3



RS60SB-135 ~ RS60SB-500
Lead Size: 20AWG,
0.81 mm Diameter

Part Number	Figure	A	B	C	D	E	F
		Maximum	Maximum	Typical	Minimum	Maximum	Typical
RS60SB-050	1	7.10	11.43	5.1	7.6	3.56	1.1
RS60SB-065	1	7.11	12.20	5.1	7.6	3.56	1.1
RS60SB-075	1	7.87	12.20	5.1	7.6	3.56	1.1
RS60SB-090	1	7.87	13.97	5.1	7.6	3.56	1.1
RS60SB-110	2	7.60	14.50	5.1	7.6	4.10	1.1
RS60SB-135	3	10.20	17.00	5.1	7.6	3.81	1.4
RS60SB-160	3	12.20	18.30	5.1	7.6	3.81	1.4
RS60SB-185	3	13.00	18.80	5.1	7.6	3.81	1.4
RS60SB-250	3	14.00	20.60	5.1	7.6	3.00	1.4
RS60SB-300	3	16.50	21.20	5.1	7.6	3.00	1.4
RS60SB-375	3	16.50	25.20	10.2	7.6	3.00	1.4
RS60SB-400	3	21.00	24.90	10.2	7.6	3.00	1.4
RS60SB-500	3	24.10	29.00	10.2	7.6	3.00	1.4

Thermal Derating Curve – Type RS60SB



Note: All specifications subject to change without notice.

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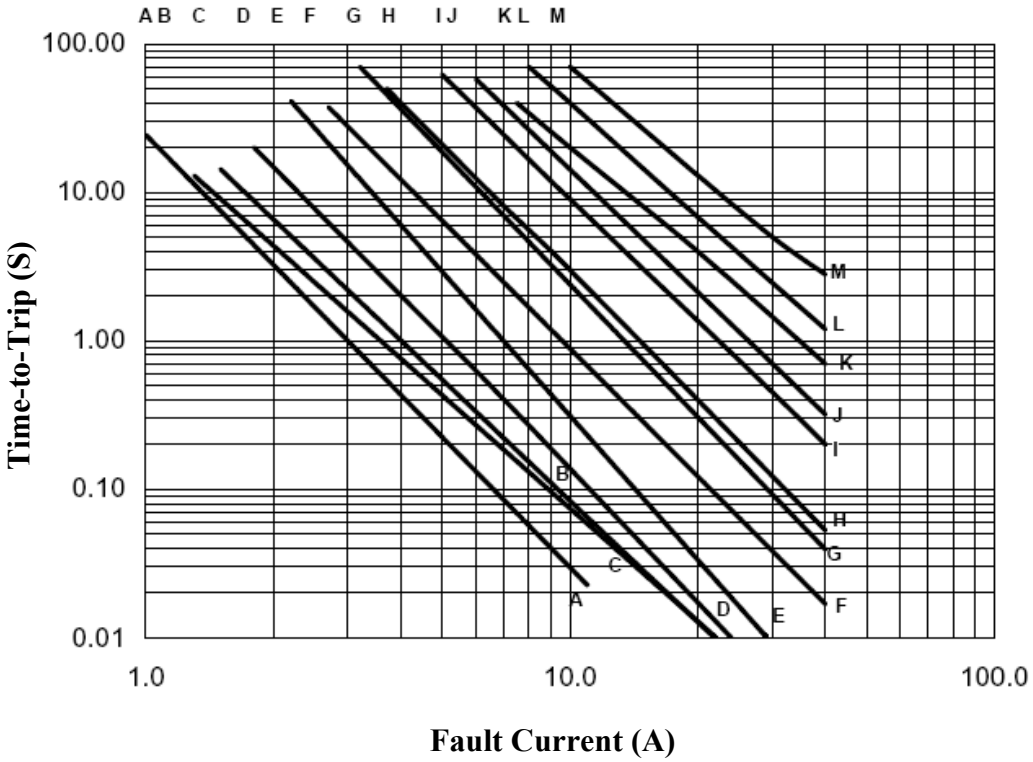
Typical Time-To-Trip at 20°C

A = RS60SB-050
B = RS60SB-065
C = RS60SB-075
D = RS60SB-090
E = RS60SB-110
F = RS60SB-135
G = RS60SB-160
H = RS60SB-185
I = RS60SB-250
J = RS60SB-300
K = RS60SB-375
L = RS60SB-400
M = RS60SB-500



Part Number	Pcs/Bag	Reel/Tape
RS60SB-050	500	3K
RS60SB-065	300	3K
RS60SB-075	300	3K
RS60SB-090	300	1.5K
RS60SB-110	300	1.5K
RS60SB-135	200	1.5K
RS60SB-160	200	1.5K

Part Number	Pcs/Bag	Reel/Tape
RS60SB-185	200	1.5K
RS60SB-250	100	1K
RS60SB-300	100	1K
RS60SB-375	100	1K
RS60SB-400	100	1K
RS60SB-500	100	1K

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.

Note: All specifications subject to change without notice.