Type RBR
Resettable Fuse (PTC's)
Radial Leaded

www.optifuse.com (619) 593-5050

Application:
Cable / Telephone Electronics: Cable Power Passing Tap.

Product Features:
Low Hold Current, Solid State
Radial-leaded product ideal for up to 90V

Operation Current: 100mA~900mA
Maximum Voltage: 90V
Temperature Range: -40ºC to 85ºC
Agency Standards and Listings:

Electrical Characteristics (23ºC)

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	at 5xI_H, S	I_{MAX}, A	V_{MAX}, Vdc	Pd, W	Ω	Ω
RBR-010	0.10	0.20	10	40	90	0.38	2.50	7.50
RBR-015	0.15	0.35	10	40	90	0.70	2.40	7.00
RBR-020	0.20	0.45	10	40	90	0.80	1.50	4.50
RBR-025	0.25	0.55	10	40	90	0.90	1.25	3.70
RBR-035	0.35	0.75	10	40	90	1.30	0.90	2.50
RBR-055	0.55	1.20	12	40	90	1.50	0.45	1.50
RBR-075	0.75	1.60	13	40	90	1.70	0.30	1.20
RBR-090	0.90	2.00	20	40	90	2.30	0.15	0.70

I_H = Hold Current – Maximum current at which the device will not trip at 23ºC still air.
I_T = Trip Current – Minimum current at which the device will always trip at 23ºC 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 = Maximum power dissipated from device when in the tripped state in 23ºC still air environment.
R_{MIN} = Minimum device resistance at 23ºC.
$R1_{MAX}$ = Maximum device resistance at 23ºC, 1 hour after tripping.

Physical Specifications:

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

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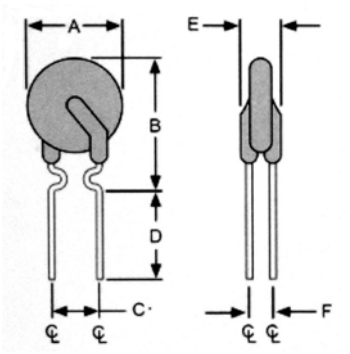
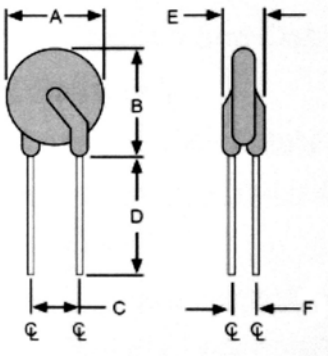
RBR Product Dimensions (millimeters)



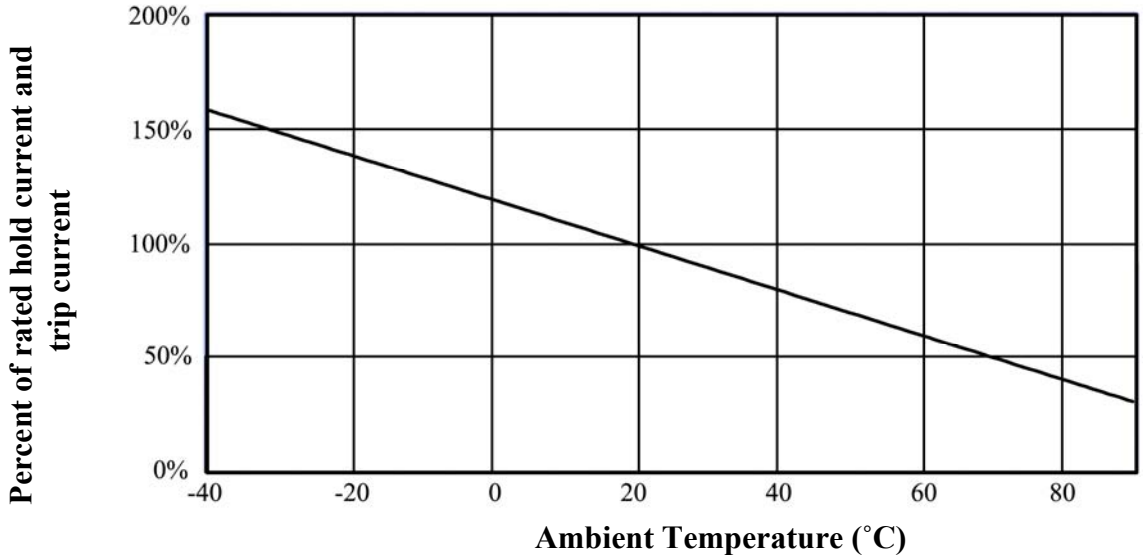
RBR-010 ~ RBR-035
Lead Size: 24AWG
0.51 mm Diameter



RBR-055 ~ RBR-090
Lead Size: 20AWG
0.81 mm Diameter

Part Number	A	B	C	D	E	F
	Maximum	Maximum	Typical	Minimum	Maximum	Typical
RBR-010	7.4	12.7	5.1	7.6	3.6	1.4
RBR-015	9.0	12.7	5.1	7.6	3.6	1.4
RBR-020	9.0	12.7	5.1	7.6	3.6	1.4
RBR-025	9.0	12.7	5.1	7.6	3.6	1.4
RBR-035	9.0	12.7	5.1	7.6	3.6	1.4
RBR-055	10.9	14.0	5.1	7.6	3.6	1.4
RBR-075	11.9	15.5	5.1	7.6	3.6	1.4
RBR-090	13.0	16.0	5.1	7.6	3.6	1.4

Thermal Derating Curve – Type RBR



Note: All specifications subject to change without notice.

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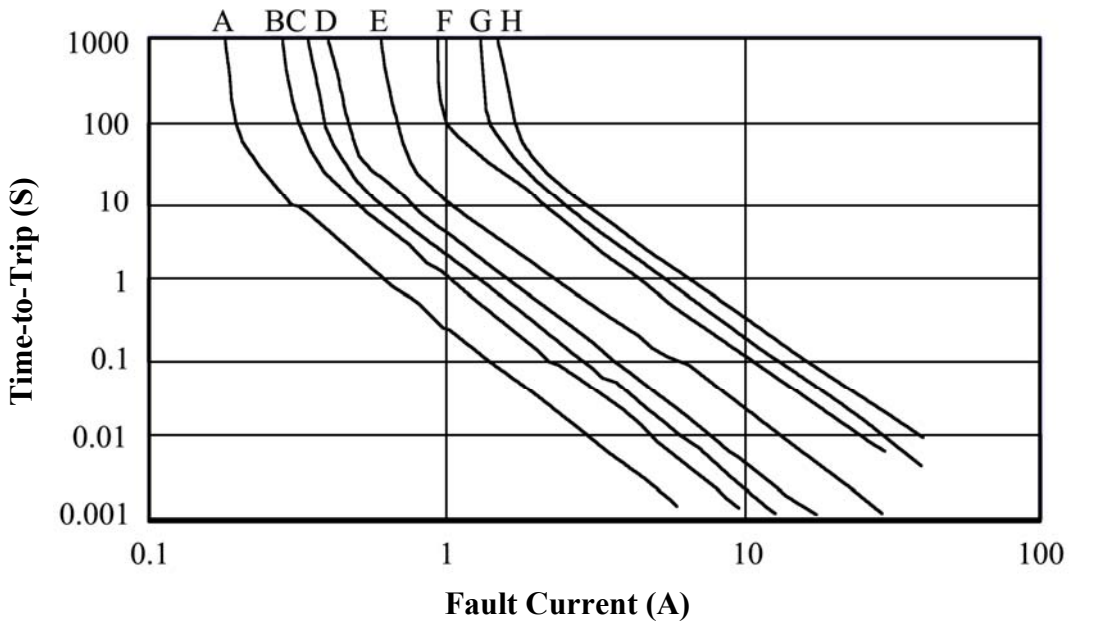
Typical Time-To-Trip at 23ºC

A = RBR-010
B = RBR-015
C = RBR-020
D = RBR-025
E = RBR-035
F = RBR-055
G = RBR-075
H = RBR-090



Standard Package

Part Number	Pcs/Bag	Reel/Tape
RBR-010	500	2.5K
RBR-015	500	2.5K
RBR-020	500	2.5K
RBR-025	500	2.5K
RBR-035	500	2.5K
RBR-055	500	2K
RBR-075	500	2K
RBR-090	500	2K

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.