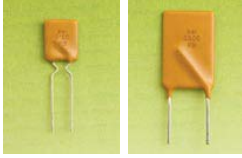


**OZRB1007D**



**Application**

Electronic applications

**Product Features**

Low DCR Resistance, High Hold Currents

**Operating (Hold Current) Range**

900mA ~ 9A

**Maximum Voltage**

30V

**Temperature Range**

-40°C to 85°C

**Agency Approval**

TUV (Std. EN60738-1-1, Cert. R50102187)

UL Component (Std. UL1434, File E305051)

**UL Conditions of Acceptability:**

1. These devices have been investigated for use in safety circuits and are suitable as a limiting device.

**Product Dimensions**

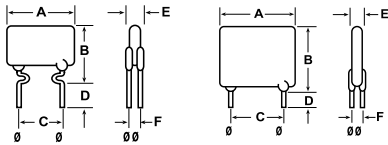


Fig 1

All dimensions in mm

Fig 2

Part Number	Fig	Lead Size ∅	A		B		C		D		E		F	
			Max	Typical	Max	Typical	Min	Max	Typical	Min	Max	Typical		
OZRB0090FF	1	0.51	7.4	12.2	5.1	7.6	3	0.9						
OZRB0110FF	1	0.51	7.4	14.2	5.1	7.6	3	0.9						
OZRB0135FF	1	0.51	8.9	13.5	5.1	7.6	3	0.9						
OZRB0160FF	1	0.51	8.9	15.2	5.1	7.6	3	0.9						
OZRB0185FF	1	0.51	10.2	15.7	5.1	7.6	3	0.9						
OZRB0250FF	1	0.51	11.4	18.3	5.1	7.6	3	0.9						
OZRB0300FF	2	0.81	11.4	17.3	5.1	7.6	3	1.2						
OZRB0400FF	2	0.81	14.0	20.1	5.1	7.6	3	1.2						
OZRB0500FF	2	0.81	14.0	24.9	10.2	7.6	3	1.2						
OZRB0600FF	2	0.81	16.5	24.9	10.2	7.6	3	1.2						
OZRB0700FF	2	0.81	19.1	26.7	10.2	7.6	3	1.2						
OZRB0800FF	2	0.81	21.6	29.2	10.2	7.6	3	1.2						
OZRB0900FF	2	0.81	24.1	29.7	10.2	7.6	3	1.2						

**Standard Package**

P/N	Bulk		Reel / Tape	
	Pcs / Box	P/N Code	Pcs / Reel	P/N Code
OZRB0090FF-0110FF	2000	1C	3000	2E
OZRB0135FF-0250FF	3000	1E	3000	2E
OZRB0300FF-0400FF	1000	1A	1500	2B
OZRB0500FF-0900FF	1000	1A	n/a	n/a

**Radial Leaded PTC**  
**OZRB Series**

RoHS6 Compliant

**Electrical Characteristics (23°C)**

Part Number (Bulk)	Hold Current I <sub>H</sub> , A	Trip Current I <sub>T</sub> , A	Max Time to Trip @ 5xI <sub>H</sub> Seconds	Max Current I <sub>max</sub> , A	Rated Voltage V <sub>max</sub> , V <sub>dc</sub>	Typical Power P <sub>d</sub> , W	Resistance Tolerance			
							R <sub>min</sub> Ohms	R <sub>max</sub> Ohms	R <sub>1max</sub> Ohms	
A	OZRB0090FF1C	0.90	1.8	5.9	40	30	0.6	0.07	0.160	0.22
B	OZRB0110FF1C	1.10	2.2	6.6	40	30	0.7	0.05	0.140	0.17
C	OZRB0135FF1E	1.35	2.7	7.3	40	30	0.8	0.04	0.095	0.13
D	OZRB0160FF1E	1.60	3.2	8.0	40	30	0.9	0.03	0.080	0.11
E	OZRB0185FF1E	1.85	3.7	8.7	40	30	1.0	0.03	0.070	0.09
F	OZRB0250FF1E	2.50	5.0	10.3	40	30	1.2	0.02	0.050	0.07
G	OZRB0300FF1A	3.00	6.0	10.8	40	30	2.0	0.02	0.050	0.08
H	OZRB0400FF1A	4.00	8.0	12.7	40	30	2.5	0.01	0.035	0.05
I	OZRB0500FF1A	5.00	10.0	14.5	40	30	3.0	0.01	0.022	0.05
J	OZRB0600FF1A	6.00	12.0	16.0	40	30	3.5	0.005	0.018	0.04
K	OZRB0700FF1A	7.00	14.0	17.5	40	30	3.8	0.005	0.015	0.03
L	OZRB0800FF1A	8.00	16.0	18.8	40	30	4.0	0.005	0.012	0.02
M	OZRB0900FF1A	9.00	18.0	20.0	40	30	4.2	0.005	0.011	0.02

- I<sub>H</sub>** Hold current-maximum current at which the device will not trip in still air at 23°C.
- I<sub>T</sub>** Trip current-minimum current at which the device will always trip in still air at 23°C.
- I<sub>max</sub>** Maximum fault current device can withstand without damage at rated voltage (V<sub>max</sub>).
- V<sub>max</sub>** Maximum voltage device can withstand without damage at its rated current.
- P<sub>d</sub>** Typical power dissipated by device when in tripped state in 23°C still air environment.
- R<sub>min</sub>** Minimum device resistance at 23°C.
- R<sub>max</sub>** Maximum device resistance at 23°C.
- R<sub>1max</sub>** Maximum device resistance at 23°C, 1 hour after initial device trip.

**Physical specifications**

**Lead material**

OZRB0090 ~ OZRB0250 - Tin plated copper clad steel, 24 AWG.

OZRB0300 ~ OZRB0900 - Tin plated copper, 20 AWG.

**Soldering characteristics**

MIL-STD-202, Method 208E.

**Insulating coating**

Flame retardant epoxy, meets UL-94-V-0 requirements.

**PTC Marking**

"bel" or "b", I<sub>H</sub> code and "RB".

Specifications subject to change without notice

# Radial Leaded PTC

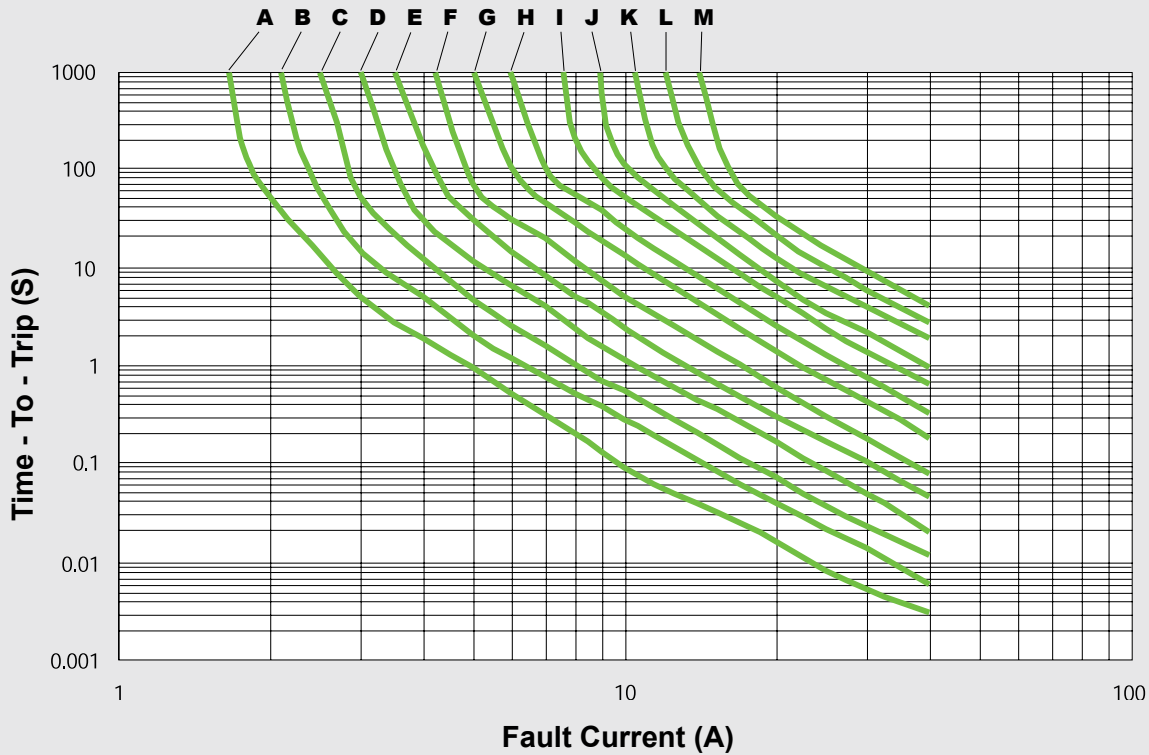
## 0ZRB Series

RoHS6 Compliant

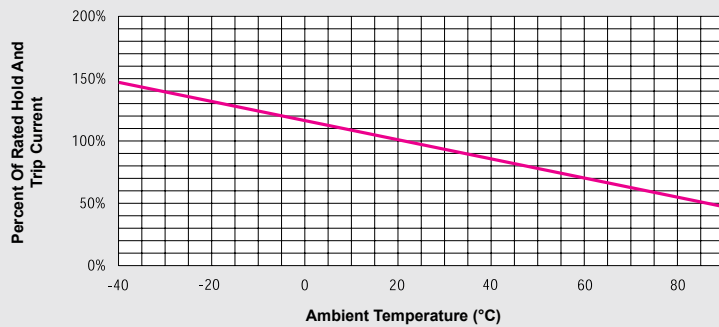
0ZRB1007C

### Typical Time - To - Trip at 23°C

(See Elec. Characteristics Table for P/N - Curve Correlation)



### Thermal Derating Curve



### Cautionary Notes

1. Operation beyond the specified maximum ratings or improper use may result in damage and possible electrical arcing and/or flame.
2. These Polymer PTC (PPTC) devices are intended for protection against overcurrent/ overtemperature fault conditions and may not be suitable for use in applications where repeated and/ or prolonged fault conditions are anticipated.
3. Avoid contact of PTC device with chemical solvent. Prolonged contact may adversely impact the PTC performance.
4. These PTC devices may not be suitable for use in circuits with a large inductance, as the PTC trip can generate circuit voltage spikes above the PTC rated voltage.

*Specifications subject to change without notice*

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