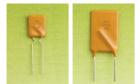
Rohs



0ZRB1007D

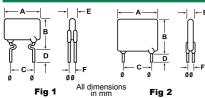


Application Electronic applications Product Features Low DCR Resistance, High Hold Currents Operating (Hold Current) Range 900mA ~ 9A Maximum Voltage 30V Temperature Range -40°C to 85°C Agency Approval

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



						-		
Part	Fig	Lead Size	A	В	C	D	E	F
Number		ø	Max	Max	Typical	Min	Max	Typical
0ZRB0090FF	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
0ZRB0250FF	1	0.51	11.4	18.3	5.1	7.6	3	0.9
0ZRB0300FF	2	0.81	11.4	17.3	5.1	7.6	3	1.2
0ZRB0400FF	2	0.81	14.0	20.1	5.1	7.6	3	1.2
0ZRB0500FF	2	0.81	14.0	24.9	10.2	7.6	3	1.2
0ZRB0600FF	2	0.81	16.5	24.9	10.2	7.6	3	1.2
0ZRB0700FF	2	0.81	19.1	26.7	10.2	7.6	3	1.2
0ZRB0800FF	2	0.81	21.6	29.2	10.2	7.6	3	1.2
0ZRB0900FF	2	0.81	24.1	29.7	10.2	7.6	3	1.2

Standard Package

P/N	В	ulk	Reel / Tape			
F/N	Pcs/Box	P/N Code	Pcs / Reel	P/N Code		
0ZRB0090FF-0110FF	2000	10	3000	2E		
0ZRB0135FF-0250FF	3000	1E	3000	2E		
0ZRB0300FF-0400FF	1000	1A	1500	2B		
0ZRB0500FF-0900FF	1000	1A	n/a	n/a		

defining a degree of excellence

Radial Leaded PTC

RoHS6 Compliant

0ZRB Series

Electrical Characteristics (23°C)

Г	Part	Hold Trip		Max Time to Trip @ 5xIн	Max Current	Rated Voltage	Typical Power	Resistance Tolerance		
Number (Bulk)	Current C	Current	Rmin					Rmax	R1 _{max}	
	Ін, А	It, A	Seconds	Imax, A	Vmax, Vdc	Pd, W	Ohms	Ohms	Ohms	
A	OZRBO090FF1C	0.90	1.8	5.9	40	30	0.6	0.07	0.160	0.22
В	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	OZRBO250FF1E	2.50	5.0	10.3	40	30	1.2	0.02	0.050	0.07
G	OZRBO300FF1A	3.00	6.0	10.8	40	30	2.0	0.02	0.050	0.08
Н	OZRBO400FF1A	4.00	8.0	12.7	40	30	2.5	0.01	0.035	0.05
1	0ZRB0500FF1A	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	0ZRB0800FF1A	8.00	16.0	18.8	40	30	4.0	0.005	0.012	0.02
М	OZRB0900FF1A	9.00	18.0	20.0	40	30	4.2	0.005	0.011	0.02

Hold current-maximum current at which the device will not trip in still air at 23°C.

IT Trip current-minimum current at which the device will always trip in still air at 23°C.

 $I_{max} \qquad \text{Maximum fault current device can with stand without damage at rated voltage (Vmax).}$

Vmax Maximum voltage device can withstand without damage at its rated current.

 \mathbf{P}_{d} Typical power dissipated by device when in tripped state in 23°C still air environment.

Rmin Minimum device resistance at 23°C.

Rmax Maximum device resistance at 23°C. R1max Maximum device resistance at 23°C, 1 hour after initial device trip.

Physical specifications

Lead material

Ιн

0ZRB0090 ~ 0ZRB0250 - Tin plated copper clad steel, 24 AWG.

0ZRB0300 ~ 0ZRB0900 - Tin plated copper, 20 AWG.

Soldering characteristics

MIL-STD-202, Method 208E.

Insulating coating

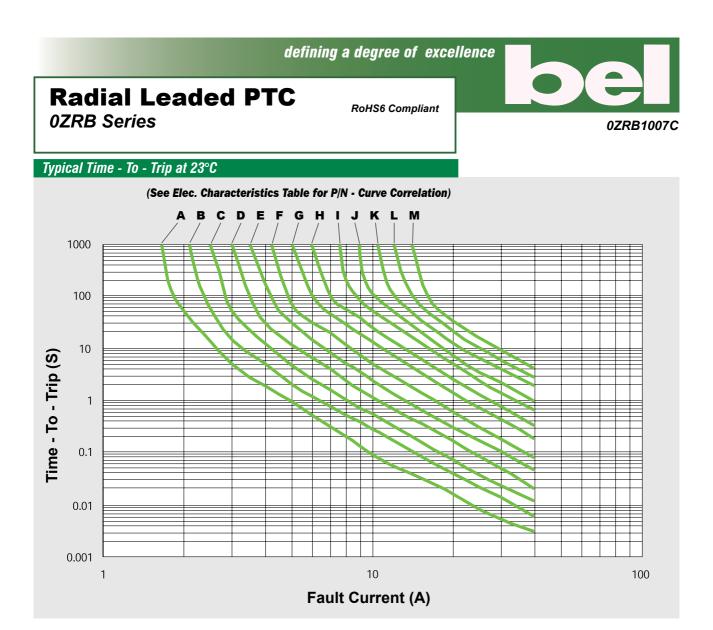
Flame retardant epoxy, meets UL-94-V-0 requirements.

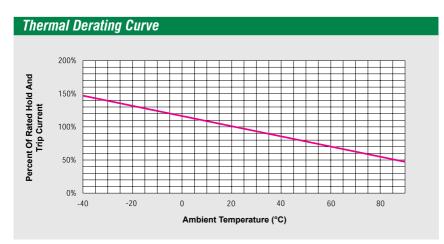
PTC Marking

"bel" or "b", IH code and "RB".

Specifications subject to change without notice

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Cautionary Notes

- Operation beyond the specified maximum ratings or improper use may result in damage and possible electrical arcing and/or flame.
- These Polymer PTC (PPTC) devices are intended for protection against occasional overcurrent/ overtemperature fault conditions and may not be suitable for use in applications where repeated and/ or prolonged fault conditions are anticipated.
- Avoid contact of PTC device with chemical solvent. Prolonged contact may adversely impact the PTC performance.
- 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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