RoHS 2002/9

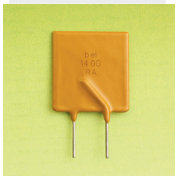
defining a degree of excellence

Radial Leaded PTC

0ZRA Series

RoHS6 Compliant

0ZRA1006D



Application
High Current Applications

Product Features
Very High Hold Currents, Low DCR Resistance

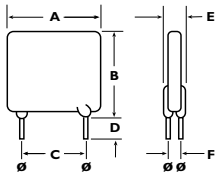
Operating (Hold Current) Range
3 A ~ 14A

Maximum Voltage
16V

Temperature Range
-40°C to 85°C

Agency Approval
UL Component (E305051)

Product Dimensions



All dimensions in mm

Part Number	Lead Size	A	B	C	D	E	F
	ø	Max	Max	Typical	Min	Max	Typical
0ZRA0300	0.81	7.1	11.0	5.1	7.6	3.0	1.2
0ZRA0400	0.81	8.9	12.8	5.1	7.6	3.0	1.2
0ZRA0500	0.81	10.4	14.3	5.1	7.6	3.0	1.2
0ZRA0600	0.81	10.7	17.1	5.1	7.6	3.0	1.2
0ZRA0700	0.81	11.2	19.7	5.1	7.6	3.0	1.2
0ZRA0800	0.81	12.7	20.9	5.1	7.6	3.0	1.2
0ZRA0900	0.81	14.0	21.7	5.1	7.6	3.0	1.2
0ZRA1000	0.81	16.5	24.1	5.1	7.6	3.0	1.2
0ZRA1100	0.81	17.5	26.0	5.1	7.6	3.0	1.2
0ZRA1200	1.00	17.5	28.0	10.2	7.6	3.6	1.4
0ZRA1400	1.00	27.9	27.9	10.2	7.6	3.6	1.4

Standard Package

P/N	Bulk		Reel/Tape	
	Pcs/Box	P/N Code	Pcs/Reel	P/N Code
0ZRA0300	2000	1C	2500	2D
0ZRA0400-0600	3000	1E	2500	2D
0ZRA0700-1400	1000	1A	n/a	n/a

Electrical Characteristics (23°C)

	Part Number	Hold Current	Trip Current	Max Time to Trip @ 5xIH	Max Current	Rated Voltage	Typical Power	Resistance Tolerance		
								Rmin	Rmax	R1max
		IH, A	IT, A	Seconds	Imax, A	Vmax, Vdc	Pd, W	Ohms	Ohms	Ohms
A	0ZRA0300	3	5.1	2.0	100	16	2.3	0.034	0.0530	0.105
B	0ZRA0400	4	6.8	3.5	100	16	2.4	0.020	0.0350	0.063
C	0ZRA0500	5	8.5	3.6	100	16	2.6	0.014	0.0210	0.044
D	0ZRA0600	6	10.2	5.8	100	16	2.8	0.009	0.0160	0.033
E	0ZRA0700	7	11.9	8.0	100	16	3.0	0.006	0.0130	0.021
F	0ZRA0800	8	13.6	9.0	100	16	3.0	0.005	0.0110	0.018
G	0ZRA0900	9	15.3	12.0	100	16	3.3	0.004	0.0085	0.015
H	0ZRA1000	10	17.0	12.5	100	16	3.3	0.003	0.0075	0.012
I	0ZRA1100	11	18.7	13.5	100	16	3.7	0.003	0.0065	0.010
J	0ZRA1200	12	20.4	16.0	100	16	4.2	0.002	0.0055	0.009
K	0ZRA1400	14	23.8	20.0	100	16	4.6	0.002	0.0045	0.008

IH 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.
Imax Maximum fault current device can withstand without damage at rated voltage (Vmax).
Vmax Maximum voltage device can withstand without damage at its rated current.
Pd Typical power dissipated from device when in the 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
0ZRA0300 ~ 0ZRA1100 - Tin plated copper, 20 AWG.
0ZRA1200 ~ 0ZRA1400 - Tin plated copper, 18 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 "**RA**".

Specifications subject to change without notice

Bel Fuse Inc. 206 Van Vorst Street, Jersey City, NJ 07302 • Tel: 201-432-0463 • Fax: 201-432-9542 • E-Mail: belfuse@belfuse.com
Website: www.belfuse.com

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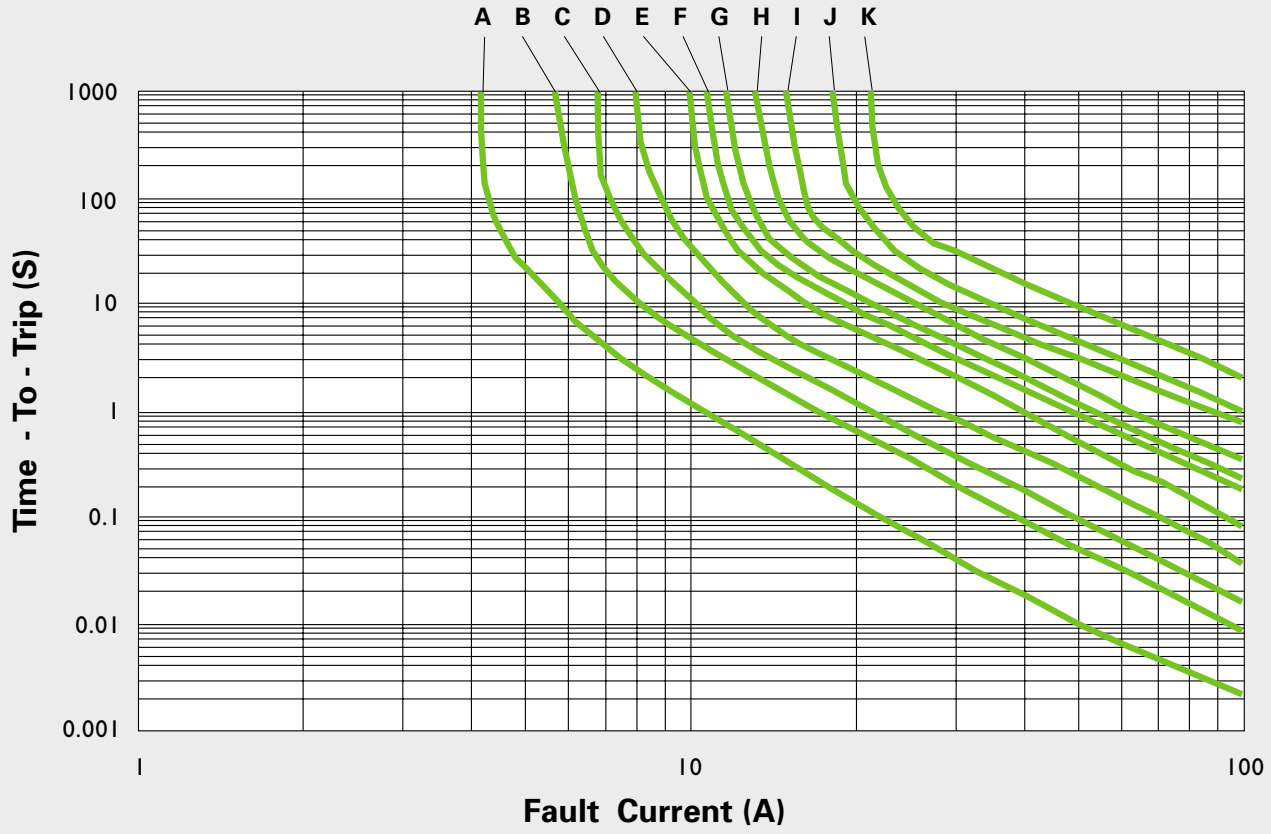
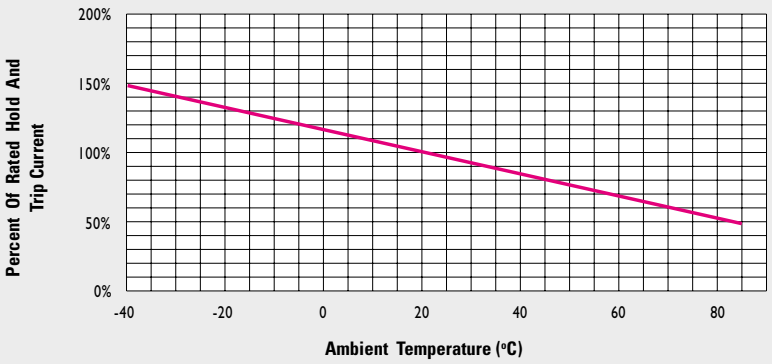
0ZRA1006C

Typical Time -To - Trip at 23 ^{0} 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 occasional 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.

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Corporate Office
Bel Fuse Inc.
206 Van Vorst Street, Jersey City, NJ 07302
Tel: 201-432-0463
Fax: 201-432-9542
E-Mail: belfuse@belfuse.com
Website: www.belfuse.com

Far East Office
Bel Fuse Ltd.
8F/8 Luk Hop Street
San Po Kong
Kowloon, Hong Kong
Tel: 852-2328-5515
Fax: 852-2352-3706

European Office
Bel Stewart GmbH
Industriestrasse 20
61381 Friedrichdorf
Germany
Tel: 49.6172.9552.0
Fax: 49.6172.9552.40