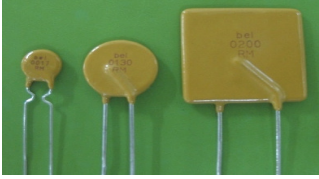


OZRMD0708



Applications

Line Voltage Power Supply, Transformer and Appliances Product

Product Features

Continuous Use at Voltages up to 120VAC/VDC

Operation Current

100mA~3.75A

Maximum Operating Voltage

120VAC/VDC

Maximum Interrupt Voltage

135VAC/DC

Temperature Range

-40°C to 85°C

Agency Recognition

TUV (Std. EN60738-1, Cert. R50131685)

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 (Millimeter)

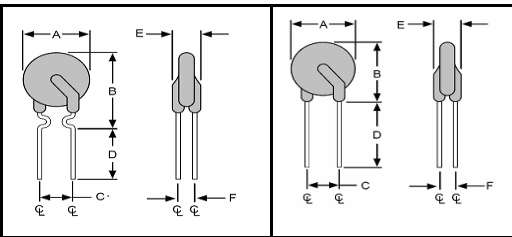


Fig 1.

Lead Size :24AWG  
Φ 0.51 mm Diameter

Fig 3.

Lead Size :20AWG  
Φ 0.81 mm Diameter

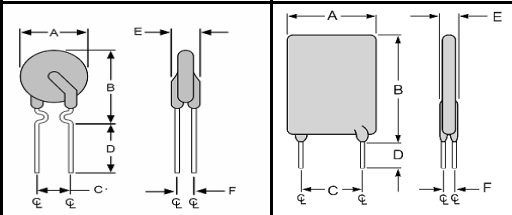


Fig 2.

Lead Size :22AWG  
Φ 0.65 mm Diameter

Fig 4.

Lead Size :20AWG  
Φ 0.81 mm Diameter

Part Number	Figure	A		B		C		D		E		F	
		Max	Typical	Max	Typical	Min	Max	Typical	Min	Max	Typical	Min	Max
OZRM0010FF	1	7.9	13	5.1	7.6	3.8	2.2						
OZRM0017FF	1	7.9	13	5.1	7.6	3.8	2.2						
OZRM0020FF	2	7.9	13	5.1	7.6	3.8	2.2						
OZRM0025FF	2	7.9	13	5.1	7.6	3.8	2.2						
OZRM0030FF	2	7.9	13	5.1	7.6	3.8	2.2						
OZRM0040FF	2	8.2	14.2	5.1	7.6	3.8	2.2						
OZRM0050FF	2	9.2	14.9	5.1	7.6	3.8	2.2						
OZRM0065FF	2	9.7	14.9	5.1	7.6	3.8	2.2						
OZRM0075FF	2	10.6	15.5	5.1	7.6	3.8	2.2						
OZRM0075AF	4	10.9	17	5.1	7.6	4.1	2.2						
OZRM0090FF	2	11.9	15.9	5.1	7.6	3.8	2.2						
OZRM0100FF	4	11.5	20.1	5.1	7.6	4.1	2.2						
OZRM0110FF	3	13.3	18.3	5.1	7.6	4.1	2.2						
OZRM0125FF	4	14	21.7	5.1	7.6	4.1	2.2						
OZRM0130FF	3	15.5	20.6	5.1	7.6	4.1	2.2						
OZRM0135AF	4	16.3	21.7	5.1	7.6	4.1	2.2						
OZRM0160FF	3	17.5	22.5	5.1	7.6	4.1	2.2						
OZRM0185FF	3	19.9	24.9	5.1	7.6	4.1	2.2						
OZRM0200FF	4	23.5	27.9	10.2	7.6	4.1	2.2						
OZRM0250FF	3	22.5	27.5	10.2	7.6	4.1	2.2						
OZRM0300FF	3	25.5	30	10.2	7.6	4.1	2.2						
OZRM0375FF	3	29.5	34	10.2	7.6	4.1	2.2						

Electrical Characteristic (23°C)

	Part Number (Bulk Package)	Hold Current	Trip Current	Max Time to Trip @ 5xIH	Max Current	Rated Voltage	Typical Power	Resistance Tolerance		
		I <sub>H</sub> , A	I <sub>T</sub> , A	Seconds	I <sub>max</sub> , A	V <sub>max</sub> , Vac/dc	P <sub>d</sub> , W	R <sub>min</sub> Ohms	R <sub>max</sub> Ohms	R <sub>1max</sub> Ohms
A	OZRM0010FF1E	0.10	0.20	10.0	2	120	0.84	3.00	5.00	7.50
B	OZRM0017FF1E	0.17	0.34	10.0	2	120	0.84	2.00	3.50	7.00
C	OZRM0020FF1E	0.20	0.40	9.0	2	120	1.08	1.83	3.12	4.40
D	OZRM0025FF1E	0.25	0.50	7.5	3	120	1.08	1.25	2.13	3.00
E	OZRM0030FF1E	0.30	0.60	8.5	3	120	1.44	0.88	1.47	2.10
F	OZRM0040FF1E	0.40	0.80	6.5	3	120	1.44	0.55	0.95	1.29
G	OZRM0050FF1E	0.50	1.00	6.0	3	120	1.56	0.50	0.85	1.17
H	OZRM0065FF1E	0.65	1.30	5.7	5	120	1.68	0.31	0.53	0.72
I	OZRM0075FF1E	0.75	1.50	6.3	5	120	1.80	0.25	0.44	0.60
J	OZRM0075AF1E	0.75	1.50	15.0	7.5	120	2.64	0.25	0.39	0.69
K	OZRM0090FF1E	0.90	1.80	7.2	5	120	1.80	0.20	0.31	0.47
L	OZRM0100FF1E	1.00	2.00	15.0	10	120	2.64	0.18	0.27	0.47
M	OZRM0110FF1E	1.10	2.20	8.2	8	120	2.28	0.15	0.28	0.38
N	OZRM0125FF1A	1.25	2.50	20.0	12.5	120	2.88	0.11	0.18	0.33
O	OZRM0135FF1A	1.35	2.70	9.6	10	120	2.64	0.12	0.21	0.30
P	OZRM0135AF1A	1.35	2.70	20.0	13.5	120	3.12	0.11	0.17	0.30
Q	OZRM0160FF1A	1.60	3.20	11.4	12	120	3.12	0.09	0.16	0.22
R	OZRM0185FF1A	1.85	3.70	12.6	12	120	3.36	0.08	0.13	0.19
S	OZRM0200FF1A	2.00	4.20	36.0	20	120	4.32	0.08	0.12	0.21
T	OZRM0250FF1A	2.50	5.00	15.6	15	120	4.44	0.05	0.08	0.13
U	OZRM0300FF1A	3.00	6.00	19.8	17	120	4.56	0.04	0.07	0.10
V	OZRM0375FF1A	3.75	7.50	24.0	20	120	4.80	0.03	0.05	0.08

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

Physical Specifications:

Lead material:

- OZRM0010FF~OZRM0017FF Matte tin plated copper, 24 AWG.
- OZRM0020FF~OZRM0090FF Matte tin plated copper, 22 AWG.
- OZRM0075FF~OZRM0375FF Matte tin plated copper, 20 AWG.

Soldering characteristics:

MIL-STD-202, Method 208E.

Insulating coating:

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

PTC Marking

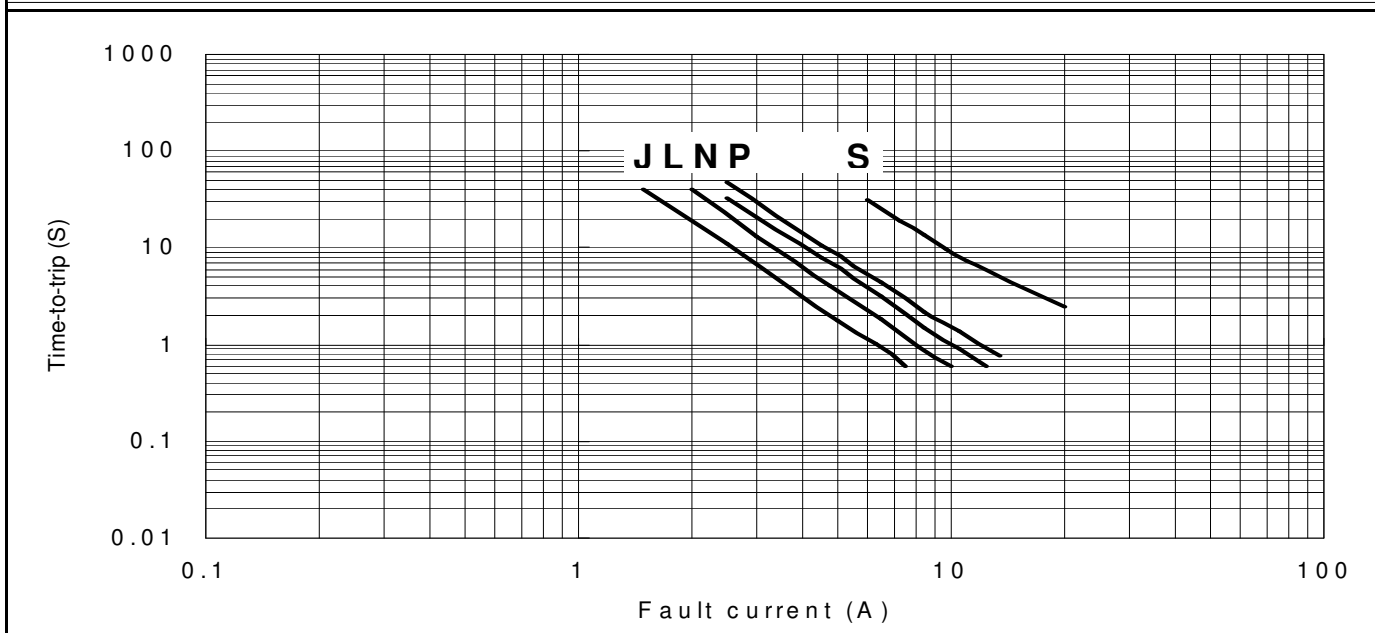
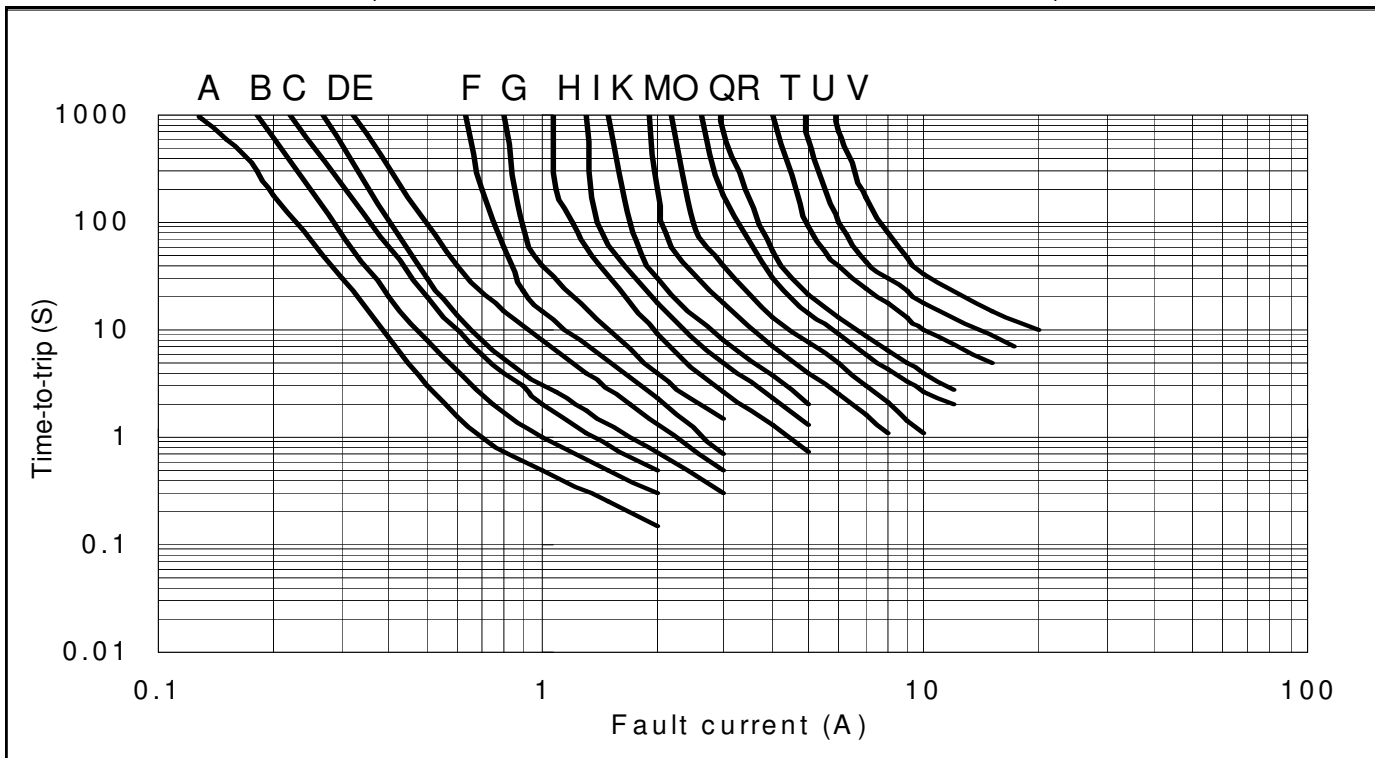
" bel " or " b ". IH code and " RM " .

Standard Package

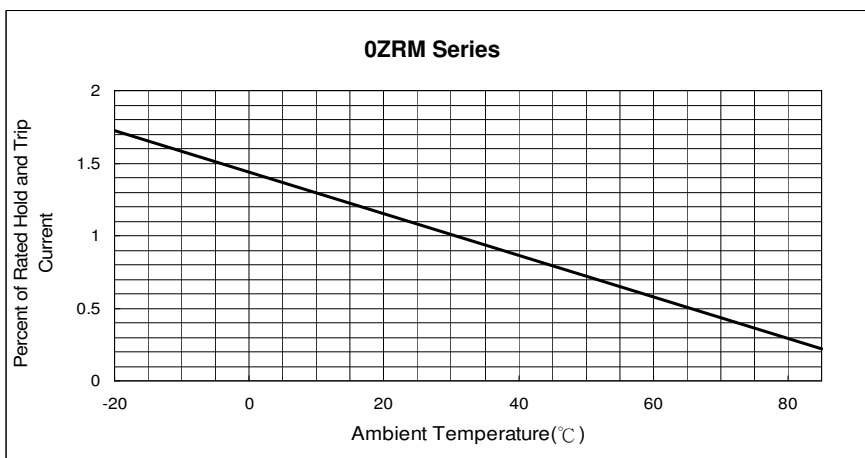
Part Number	Bulk		Reel / Tape	
	Pcs/Box	P/N code	Pcs/Reel	P/N code
OZRM0010FF~OZRM0050FF	3000	1E	2000	2C
OZRM0065FF~OZRM0110FF	3000	1E	1500	2B
OZRM0125FF~OZRM0185FF	1000	1A	n/a	n/a
OZRM0200FF~OZRM0375FF	1000	1A	n/a	n/a

Typical Time-To-Trip at 23 °C

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



Thermal Derating Curve



Cautionary Notes:

Each product should be carefully evaluated and tested for their suitability of application.

- 1.Operation beyond the specified maximum rating or improper use may result in damage and possible electrical arcing and/or flame.
- 2.PPTC device are intended for occasional overcurrent protection. Application for repeated overcurrent condition and/or prolonged trip are not anticipated.
- 3.Avoid contact of PPTC device with chemical solvent, including some inert material such as silicone based oil, lubricant and etc. Prolonged contact will damage the device performance.
- 4.Additional protection mechanism are strongly recommended to be used in conjunction with the PPTC device for protection against abnormal or failure conditions.
- 5.Avoid use of PPTC device in a constrained space such as potting material, housing and containers where have limited space to accommodate device thermal expansion and/or contraction.