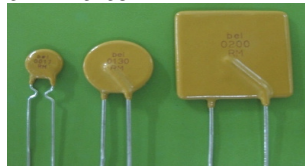


**OZRMD0708**



**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**

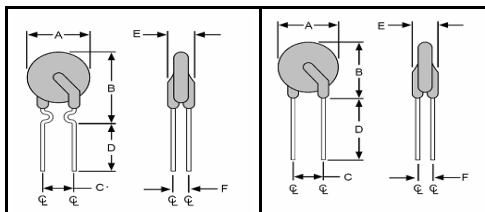
TUV (Std. EN60738-1, Cert. R50131685)

UL Component (Std. UL1434, File E305051)

UL Conditions of Acceptability:

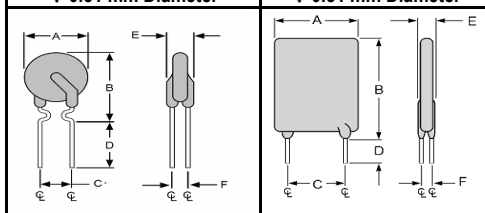
1. These devices have been investigated for use in safety circuits and are suitable as a limiting device.

**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	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>	R <sub>max</sub>	R <sub>1max</sub>
		Ohms	Ohms	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**

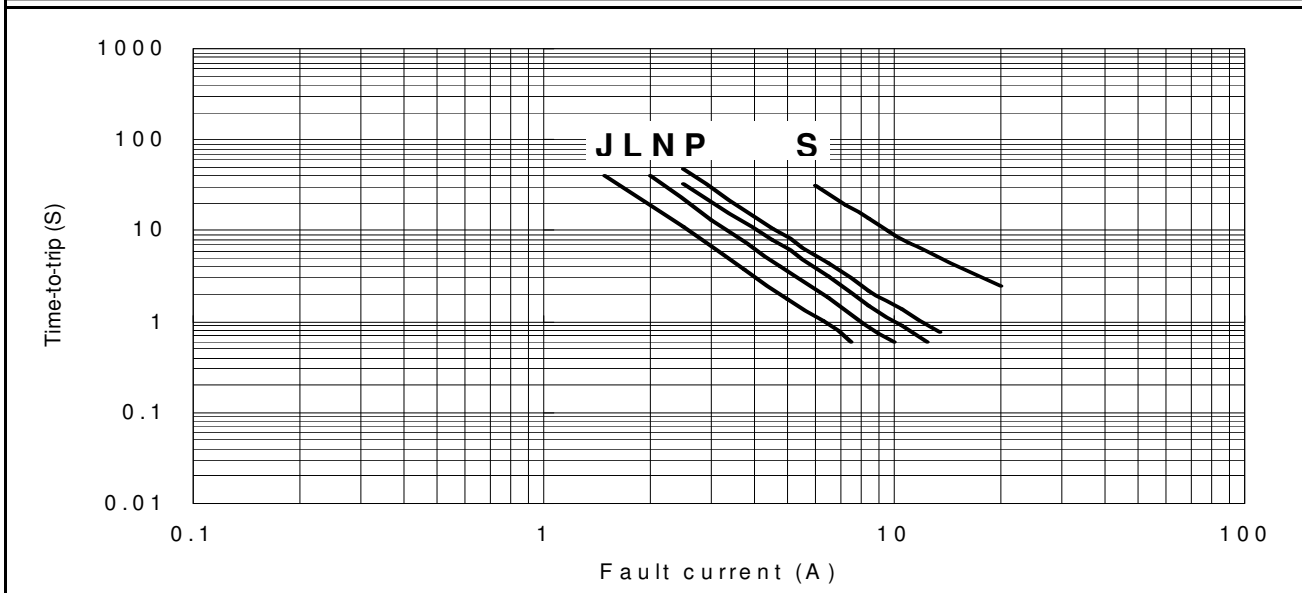
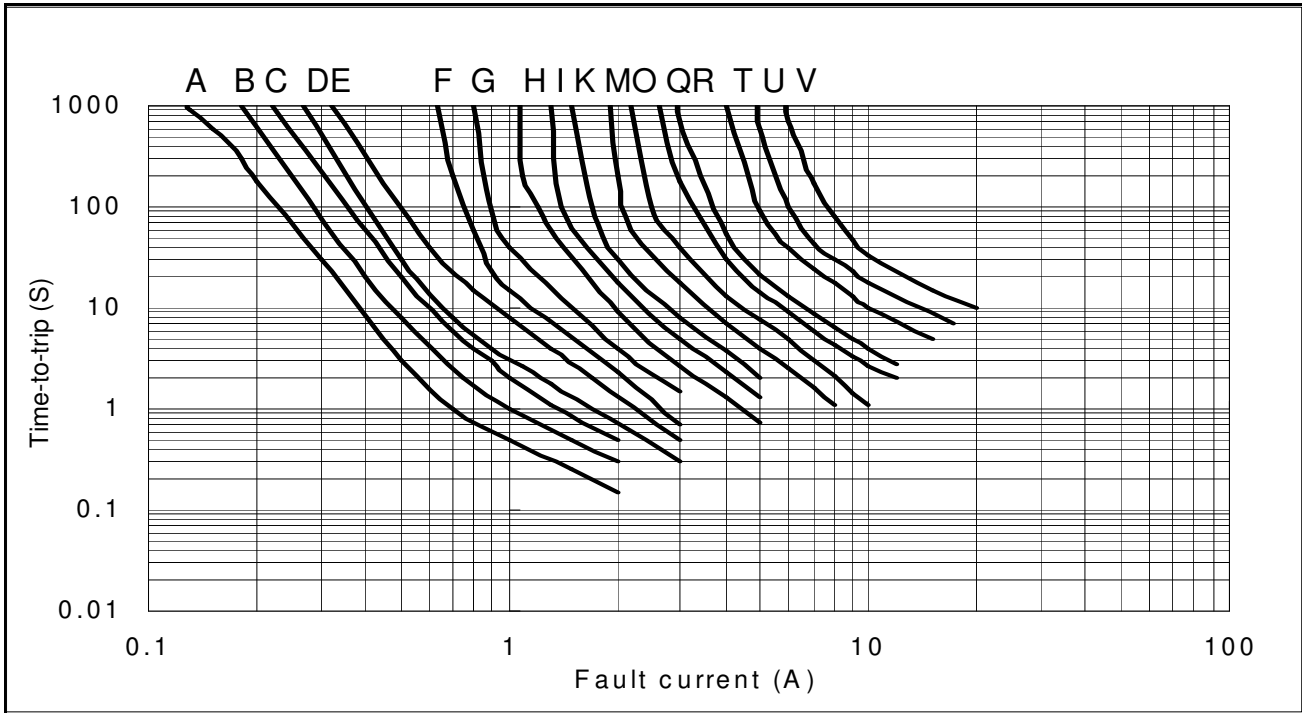
" bel " or " b ". IH code and " RM ".

**Standard Package**

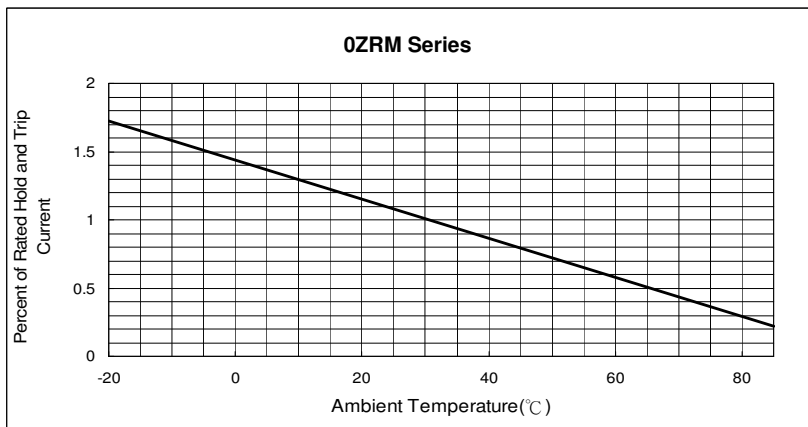
Part Number	Bulk		Reel / Tape	
	Pcs/Box	P/N code	Pcs/Reel	P/N code
OZRM0010FF~OZRM0050FF	3000	1E	2000	2C
OZRM0065FF~OZRM0110FF	3000	1E	1500	2B
OZRM0125FF~OZRM0185FF	1000	1A	n/a	n/a
OZRM0200FF~OZRM0375FF	1000	1A	n/a	n/a

**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.