

HF 6 OZRR Series

RoHS Compliant

Product Features

- Low hold current, Solid state, Radial leaded product ideal for up to 60VDC
- Full compliance with EU Directive 2011/65/EU and amending directive 2015/863
- AEC-Q Compliant
- Meets Bel automotive qualification*
 - * Largely based on internal AEC-Q test plan

Operating (Hold Current) Range

50mA - 3.75A

Maximum Voltage

60VDC

Temperature Range

-40°C to 85°C

Agency Approval

TUV (Std. EN/IEC 60738-1-1 and EN/IEC 60730-1, Cert. R50102187) UL Recognized Component (Std. UL1434, File E305051)

> LEAD FREE = HALOGEN FREE = HF

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AEC-Q Compliant

Part Number (Bulk) Hold Current Trip Current Rated Voltage Max Current Typical Power Max Time to Trip Resistance Tolerance Agency Application A 0ZRR0005FF1E 0.05 0.10 60 40 0.26 0.25 5.0 7.30 20.00 Y Imax PM A Sec Ohms Ohms Y Imax PM A Sec Ohms Ohms Y Imax Imax PM A Sec Ohms Ohms Y Imax Imax	Ele	Electrical Characteristics (23°C)											
Bulk Current Current Power Current Ime Rmin R1max R1max A 0ZRR0005FF1E 0.05 0.10 60 40 0.26 0.25 5.0 7.30 20.00 Y B 0ZRR0010FF1E 0.10 0.20 60 40 0.26 0.25 5.0 7.30 20.00 Y C 0ZRR0010FF1E 0.10 0.20 60 40 0.38 0.50 4.0 2.50 7.50 Y C 0ZRR0017FF1E 0.17 0.34 60 40 0.48 0.85 3.0 2.00 8.00 Y D 0ZRR0020FF1E 0.20 0.40 60 40 0.41 1.00 2.2 1.83 4.40 Y E 0ZRR0020FF1E 0.20 0.40 60 40 0.49 1.50 3.0 0.88 2.10 Y G 0ZRR0030FF1E 0.30 0.60 40		Part Number	Hold	Trip	Rated	Max	Typical	Max Tim	e to Trip	Resistance	Tolerance	Agency A	pprovals
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B 0ZRR0010FF1E 0.10 0.20 60 40 0.38 0.50 4.0 2.50 7.50 Y C 0ZRR0017FF1E 0.17 0.34 60 40 0.48 0.85 3.0 2.00 8.00 Y D 0ZRR0020FF1E 0.20 0.40 60 40 0.41 1.00 2.2 1.83 4.40 Y E 0ZRR0025FF1E 0.25 0.50 60 40 0.45 1.25 2.5 1.25 3.00 Y F 0ZRR0030FF1E 0.30 0.60 60 40 0.49 1.50 3.0 0.88 2.10 Y G 0ZRR0040FF1E 0.40 0.80 60 40 0.56 2.00 3.8 0.55 1.29 Y H 0ZRR0050FF1E 0.50 1.00 60 40 0.77 2.50 4.0 0.50 1.17 Y J 0ZRR0050FF1E 0.55		(2011)	IH, A	It, A	Vmax, Vdc	Imax, A	Pd, W	A	Sec	Ohms	Ohms	0 - 03	TÜV
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D D	В	0ZRR0010FF1E	0.10	0.20	60	40	0.38	0.50	4.0	2.50	7.50	Y	Y
E DARRO025FF1E 0.25 0.50 60 40 0.45 1.25 2.5 1.25 3.00 Y F 0ZRR0030FF1E 0.30 0.60 60 40 0.49 1.50 3.0 0.88 2.10 Y G 0ZRR0030FF1E 0.30 0.60 60 40 0.49 1.50 3.0 0.88 2.10 Y G 0ZRR0040FF1E 0.40 0.80 60 40 0.56 2.00 3.8 0.55 1.29 Y H 0ZRR0050FF1E 0.50 1.00 60 40 0.77 2.50 4.0 0.50 1.17 Y I 0ZRR0055FF1E 0.65 1.30 60 40 0.92 3.75 6.3 0.25 0.60 Y J 0ZRR0075FF1E 0.90 1.80 60 40 0.99 4.50 7.2 0.20 0.47 Y L 0ZRR0106FF1A 1.10	С	0ZRR0017FF1E	0.17	0.34	60	40	0.48	0.85	3.0	2.00	8.00	Y	Y
F OZRR0030FF1E 0.30 0.60 60 40 0.49 1.50 3.0 0.88 2.10 Y G OZRR0040FF1E 0.40 0.80 60 40 0.56 2.00 3.8 0.55 1.29 Y H OZRR0050FF1E 0.50 1.00 60 40 0.77 2.50 4.0 0.50 1.17 Y I OZRR0050FF1E 0.65 1.30 60 40 0.88 3.25 5.3 0.31 0.72 Y J OZRR0055FF1E 0.65 1.30 60 40 0.88 3.25 5.3 0.31 0.72 Y J OZRR0075FF1E 0.65 1.30 60 40 0.99 3.75 6.3 0.25 0.60 Y K OZRR0075FF1E 0.75 1.50 60 40 0.99 4.50 7.2 0.20 0.47 Y L OZRR0105FF1A 1.30	D	0ZRR0020FF1E	0.20	0.40	60	40	0.41	1.00	2.2	1.83	4.40	Y	Y
G DZRR0040FF1E 0.40 0.80 60 40 0.56 2.00 3.8 0.55 1.29 Y H 0ZRR0050FF1E 0.50 1.00 60 40 0.77 2.50 4.0 0.50 1.17 Y I 0ZRR0050FF1E 0.65 1.30 60 40 0.88 3.25 5.3 0.31 0.72 Y J 0ZRR0055FF1E 0.65 1.30 60 40 0.88 3.25 5.3 0.31 0.72 Y J 0ZRR0075FF1E 0.75 1.50 60 40 0.92 3.75 6.3 0.25 0.60 Y K 0ZRR0090FF1E 0.90 1.80 60 40 0.99 4.50 7.2 0.20 0.47 Y L 0ZRR0110FF1A 1.10 2.20 60 40 1.50 5.50 8.2 0.15 0.38 Y M 0ZRR0135FF1A 1.35	Е	0ZRR0025FF1E	0.25	0.50	60	40	0.45	1.25	2.5	1.25	3.00	Y	Y
H OZRR0050FF1E 0.50 1.00 60 40 0.77 2.50 4.0 0.50 1.17 Y I OZRR0065FF1E 0.65 1.30 60 40 0.88 3.25 5.3 0.31 0.72 Y J OZRR0065FF1E 0.65 1.30 60 40 0.88 3.25 5.3 0.31 0.72 Y J OZRR0075FF1E 0.75 1.50 60 40 0.92 3.75 6.3 0.25 0.60 Y K OZRR0090FF1E 0.90 1.80 60 40 0.99 4.50 7.2 0.20 0.47 Y L OZRR0110FF1A 1.10 2.20 60 40 1.50 5.50 8.2 0.15 0.38 Y M OZRR0135FF1A 1.35 2.70 60 40 1.70 6.75 9.6 0.12 0.30 Y N OZRR0160FF1A 1.60 3.20 60 40 1.90 8.00 11.4 0.09 0.22 Y<	F	0ZRR0030FF1E	0.30	0.60	60	40	0.49	1.50	3.0	0.88	2.10	Y	Y
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N OZRR0160FF1A 1.60 3.20 60 40 1.90 8.00 11.4 0.09 0.22 Y O OZRR0185FF1A 1.85 3.70 60 40 2.10 9.25 12.6 0.08 0.19 Y P OZRR0250FF1A 2.50 5.00 60 40 2.50 12.50 15.6 0.05 0.13 Y Q OZRR0300FF1A 3.00 6.00 60 40 2.80 15.00 19.8 0.04 0.10 Y	L	0ZRR0110FF1A	1.10	2.20	60	40	1.50	5.50	8.2	0.15	0.38	Y	Y
O OZRR0185FF1A 1.85 3.70 60 40 2.10 9.25 12.6 0.08 0.19 Y P OZRR0250FF1A 2.50 5.00 60 40 2.50 12.50 15.6 0.05 0.13 Y Q OZRR0300FF1A 3.00 6.00 60 40 2.80 15.00 19.8 0.04 0.10 Y	Μ	0ZRR0135FF1A	1.35	2.70	60	40	1.70	6.75	9.6	0.12	0.30	Y	Υ
P 0ZRR0250FF1A 2.50 5.00 60 40 2.50 12.50 15.6 0.05 0.13 Y Q 0ZRR0300FF1A 3.00 6.00 60 40 2.80 15.00 19.8 0.04 0.10 Y	Ν	0ZRR0160FF1A	1.60	3.20	60	40	1.90	8.00	11.4	0.09	0.22	Y	Y
Q 0ZRR0300FF1A 3.00 6.00 60 40 2.80 15.00 19.8 0.04 0.10 Y	0	0ZRR0185FF1A	1.85	3.70	60	40	2.10	9.25	12.6	0.08	0.19	Y	Y
	Ρ	0ZRR0250FF1A	2.50	5.00	60	40	2.50	12.50	15.6	0.05	0.13	Y	Y
P 07PP0275EE1A 2.75 7.50 60 40 2.20 19.75 24.0 0.02 0.09 V	Q	0ZRR0300FF1A	3.00	6.00	60	40	2.80	15.00	19.8	0.04	0.10	Y	Y
R 02R 0373FFTA 3.73 7.30 00 40 3.20 10.73 24.0 0.03 0.06 1	R	0ZRR0375FF1A	3.75	7.50	60	40	3.20	18.75	24.0	0.03	0.08	Y	Y

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

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

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

Maximum fault current device can withstand at rated voltage (Vmax) without damage. Imax Pd

Typical power dissipated by device when in tripped state in 23°C still air environment.

Rmin Minimum device resistance at 23°C in initial un-soldered state.

R1max Maximum device resistance at 23°C, 1 hour after initial device trip, or after being soldered to PCB in end application.





Specifications subject to change without notice

PTC's – Basic Theory of Operation / "Tripped" Resistance Explanation

A Bel PTC consists of a block of polymeric material containing conductive carbon granules which is sandwiched between two conductive metal plates. When this polymer block reaches approximately 125C, either due to current passing through it via conductive chains of carbon particles or due to an external heat source; it swells volumetrically. This expansion breaks apart a majority of the chains of carbon granules that run randomly between the two conductive plates. This behavior results in a sharp increase in resistance across the two plates which all but eliminates current flow through the device, allowing just enough residual current flow to maintain the block's internal temperature at 125C. Once this "tripped" state current is cut off, the polymer brick cools and shrinks to its original size, thereby allowing its broken carbon chains to reestablish themselves and permit the part to return to its low resistance state. Once cooled to room ambient, the PTC will once again exhibit a resistance less than its "R1max" rating.

At currents below the device IHOLD rating, AND at temperatures below 100C, the PTC maintains a resistance value below its R1 MAX rating.

The catalog data for each device specifies a "Typical Power" value. This is the power required to exactly match the heat lost by the tripped device to its ambient surroundings at 23C. By Ohm's Law, power can be stated as: $W = E^2/R$. Thus the approximate resistance of a "Tripped" PTC can be determined by: $R = E^2/W$, where "E" is the voltage appearing across the PTC (usually the supply's open circuit voltage), and "W" is the Typical Power value for the particular PTC.

Since the PPTC acts to maintain a constant internal temperature, its apparent resistance will change based upon applied voltage and, to a lesser degree, ambient conditions. Consider the following example....

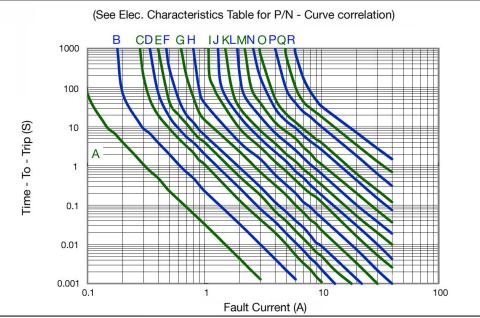
A PTC with a Typical Power of 1 watt protecting a circuit using a 60V supply will demonstrate an apparent, tripped resistance "R" of:

 $R = 60^2/1 = 3,600 \text{ ohms}$

This same tripped device when used to protect a 12V circuit would now present an apparent resistance of: $R = 12^{2}/1 = 144$ ohms

The value for Typical Power is "typical" because any physical factors that affect heat loss (such as ambient temperature or air convection) will somewhat alter the level of power that the PTC needs to maintain its internal temperature. In short, PTCs do not exhibit a constant, quantifiable tripped resistance value.

Average Time Current Characteristic Curve at 23°C



The Average Time Current Characteristic Curve and Temperature Rerating Curve are affected by a number of variables and these curves are provided for guidance only.



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Type 0ZRR Series

Physical Specifications

Lead material:

Matte tin plated copper, size / diameter as shown in Drawings and Table under Product Dimensions.

Soldering charactcristics

MIL-STD-202, Method 208H.

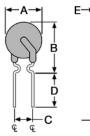
Insulating coating

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

PTC Marking

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

Product Dimensions



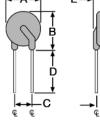


Fig.1 Lead Size : 24AWG Φ 0.51 mm Diameter

Fig.2 Lead Size : 20AWG Φ 0.81 mm Diameter

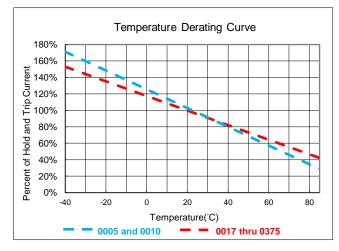
					All di	mensior	ns in mm.
Part	Lin	А	В	С	D	E	F
Number	Fig.	Max	Max	Typical	Min	Max	Typical
0ZRR0005FF - 0ZRR0025FF	1	7.4	12.7	5.1	7.6	3.1	1.1
0ZRR0030FF	1	7.4	13.0	5.1	7.6	3.1	1.1
0ZRR0040FF	1	7.6	13.5	5.1	7.6	3.1	1.1
0ZRR0050FF	1	7.9	13.7	5.1	7.6	3.1	1.1
0ZRR0065FF	1	9.7	14.5	5.1	7.6	3.1	1.1
0ZRR0075FF	1	10.4	15.2	5.1	7.6	3.1	1.1
0ZRR0090FF	1	11.7	15.8	5.1	7.6	3.1	1.1
0ZRR0110FF	2	13.0	18.0	5.1	7.6	3.1	1.4
0ZRR0135FF	2	14.5	19.6	5.1	7.6	3.1	1.4
0ZRR0160FF	2	16.3	21.3	5.1	7.6	3.1	1.4
0ZRR0185FF	2	17.8	22.9	5.1	7.6	3.1	1.4
0ZRR0250FF	2	21.3	26.4	10.2	7.6	3.1	1.4
0ZRR0300FF	2	24.9	30.0	10.2	7.6	3.1	1.4
0ZRR0375FF	2	28.5	33.5	10.2	7.6	3.1	1.4

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Temperature Derating Table

		Temperature Derating								
I Hold Value	-40	-20	0	23	30	40	50	60	70	85
0005 and 0010	170%	148%	127%	100%	92%	80%	69%	57%	46%	28%
0017 thru 0375	150%	134%	117%	100%	94%	87%	75%	63%	53%	38%

Thermal Derating Curve



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.
- 3. 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.
- 5. These devices may be used in both DC and AC circuits provided that peak-to-peak line voltage when carrying AC does not exceed the PTC's Vmax rating. As PTCs are essentially thermal devices, the RMS value of AC current carried by a PTC will produce tripping parameters and times-to-trip similar to those of a DC voltage of the same magnitude.
- If potting is mandated, avoid rigid potting compounds as they will encase the PTC and prevent it from volumetrically expanding to properly respond to a trip event.



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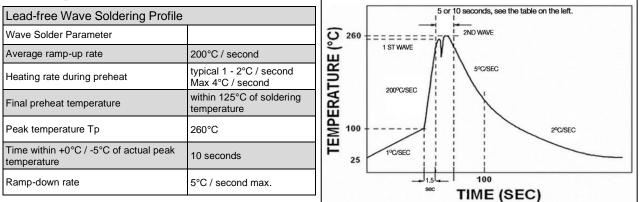
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Type 0ZRR Series

Environmental Specifications

Temperature cycling	JESD22 Method JA-104
Biased humidity	MIL-STD-202 Method 103
Operational life	MIL-STD-202 Method 108
Terminal strength	AEC-Q200-004
Resistance to solvents	MIL-STD-202 Method 215
Mechanical shock	MIL-STD-202 Method 213
Vibration	MIL-STD-202 Method 204
Resistance to soldering heat	MIL-STD-202 Method 210
Thermal shock	MIL-STD-202 Method 107
Solderability	ANSI/J-STD-002

Soldering Parameters



Standard Packaging

P/N Ex	planation	and	Orderina	Information
	planation	MII M	o ao mg	

Part Number	B	ulk	Reel/Tape		
Fait Number	Pcs/Box P/N Code		Pcs/Reel	P/N Code	
0ZRR0005FF - 0ZRR0090FF	3000	1E	3000	2E	
0ZRR0110FF - 0ZRR0185FF	1000	1A	1500	2B	
0ZRR0250FF - 0ZRR0375FF	1000	1A	1000	2A	

	0ZRR	<u>xxxx</u>	<u>x x xx</u>
PTC series 0ZRR Series			
I HOLD Rating Refer to Part Number and IH Rating in Elec	trical Characteris	stics Table on F	21.
F = Standard Design A to Z (except F) = Special, customer spec,	DCB cost ato		
A to 2 (except F) = Special, customer spec, Mechanical Features F = Standard Design A to Z (except F) = Special, customer spec,		с.	
Tape & Reel Qty			

See standard packaging



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Rev. 0ZRR Apr2023

Mouser Electronics

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Bel:

0ZRR0030FF1E	0ZRR0185FF1	0ZRR0050FF1E	0ZRR0050FF2E	0ZRR0065FF1E	0ZRR0185FF2B
0ZRR0075FF1E	0ZRR0135FF2B	0ZRR0375FF1A	0ZRR0017FF1E	0ZRR0017FF2E	0ZRR0020FF2E
0ZRR0110FF1A	0ZRR0005FF1E	0ZRR0030FF2E	0ZRR0005FF2E	0ZRR0010FF2E	0ZRR0075FF2E
0ZRR0300FF1A	0ZRR0300FF2A	0ZRR0025FF2E	0ZRR0020FF1E	0ZRR0025FF1E	0ZRR0090FF2E
0ZRR0110FF2B	0ZRR0135FF1A	0ZRR0040FF2E	0ZRR0250FF1A	0ZRR0250FF2A	0ZRR0010FF1E
0ZRR0090FF1E	0ZRR0160FF2B	0ZRR0040FF1E	0ZRR0065FF2E	0ZRR0160FF1A	0ZRR0375FF2A