

1N914 & 1N4148-1



Silicon Switching Diode

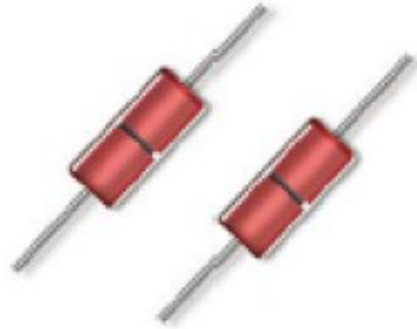
Rev. V1

Features

- Available in JAN, JANTX, and JANTXV per MIL-PRF-19500/116
- Metallurgically Bonded
- Hermetically Sealed
- Double Plug Construction

Maximum Ratings

Operating & Storage Temperature: -65°C to +200°C
 Operating Current: 200 mA @ $T_A = +25^\circ\text{C}$
 Derating Factor: 1.14 mA/°C above $T_A = +25^\circ\text{C}$
 Surge Current A: 2.00 A, sinewave, $P_w = 8.3$ ms

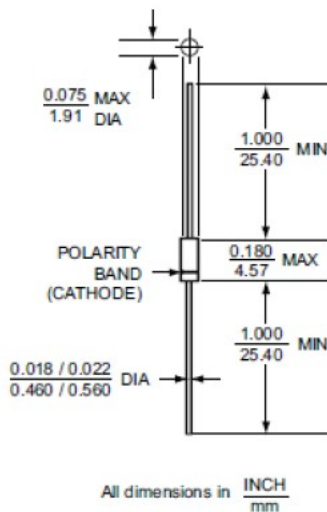


Electrical Specifications @ +25°C (unless otherwise Specified)

JEDEC TYPE#	VBR @ 100 μA	VRWM	IO	Vf1 IF = 10 mA	Vf2 IF = 50 mA	Trr ¹	IR1 @ 20 Vdc	IR2 @ 75 Vdc	IR3 @ 20 Vdc $T_A = 150^\circ\text{C}$	IR4 @ 75 Vdc $T_A = 150^\circ\text{C}$	Capacitance @ 0 V	Capacitance @ 1.5 V
	Volts	Volts (pk)	mA	Vdc	Vdc	nsec	nA	μA	μA	μA	pF	pF
1N914	100	75	75	0.8	1.2	5	25	0.5	35	75	4.0	2.8
1N4148-1	100	75	200	0.8	1.2	5	35	0.5	35	75	4.0	2.8

1. IF = IR = 10 mA, RL = 100 ohms.

Outline Drawing



LEADED DESIGN DATA

CASE: Hermetically sealed glass case per MIL-S-19500/116, DO – 35

LEAD MATERIAL: Copper clad steel

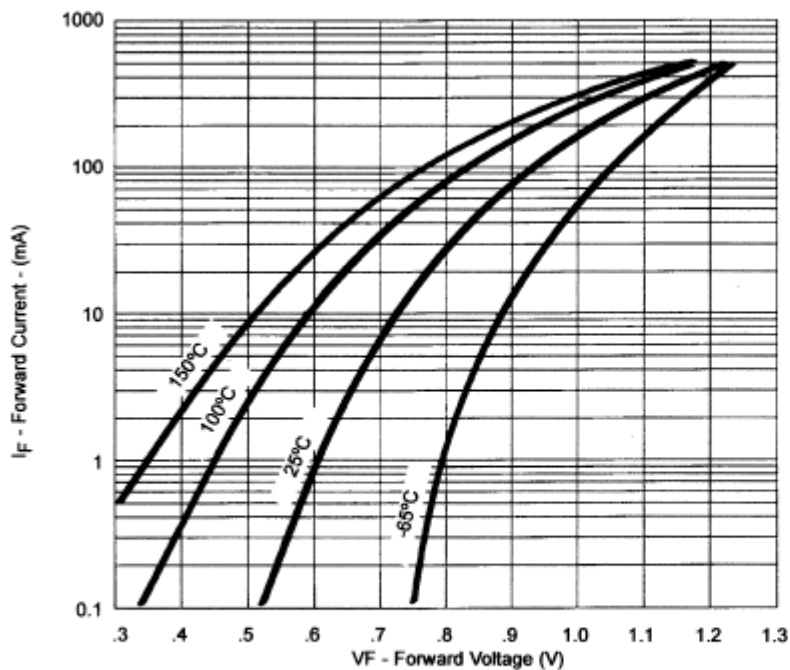
LEAD FINISH: Tin / Lead

THERMAL RESISTANCE: ($R_{\theta JL}$): 250 °C/W maximum at L = 0.375 in

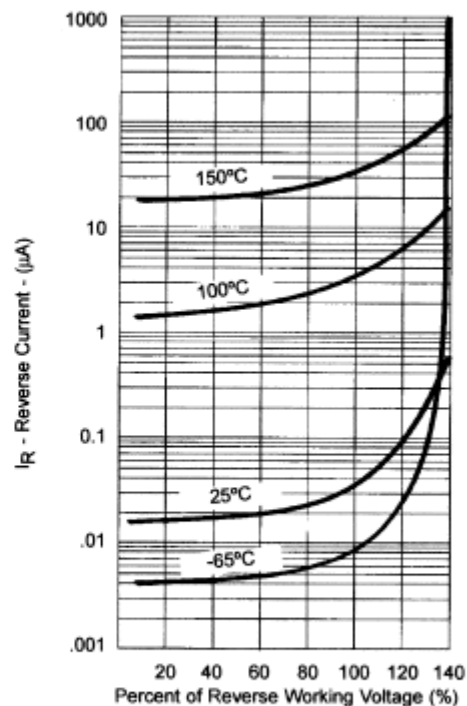
THERMAL IMPEDANCE: ($Z_{\theta JX}$): 70 °C/W maximum

POLARITY: Cathode end is banded.

Graphs



Typical Forward Current vs Forward Voltage



Typical Reverse Current vs Reverse Voltage

NOTE : All temperatures shown on graphs are junction temperatures

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