

Silicon Switching Diodes

1N914 & 1N4148-1



Features

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

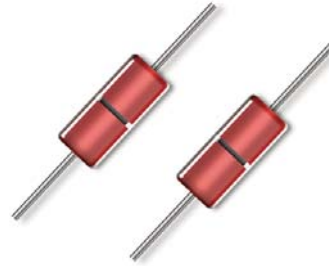
Maximum Ratings

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: 2A, sinewave, $P_W = 8.3$ ms

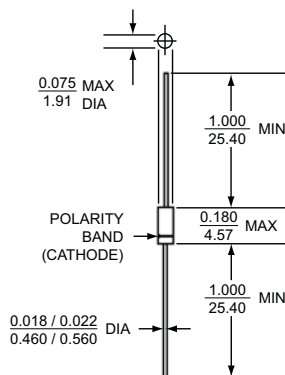


Electrical Specifications @ +25 °C (Unless Otherwise Specified)

JEDEC TYPE Number	V_{BR} @ 100 μA	V_{RWM}	I_O	V_{f1} $I_F = 10$ mA	V_{f2} $I_F = 50$ mA	T_{rr} (Note 1)	I_{R1} @ 20 Vdc	I_{R2} @ 75 Vdc	I_{R3} @ 20 Vdc $T_A = 150^\circ\text{C}$	I_{R4} @ 75 Vdc $T_A = 150^\circ\text{C}$	Capacitance @ 0V	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

Note 1: $I_F = I_R = 10$ mA, $R_L = 100$ ohms.

Outline Drawing



All dimensions in $\frac{\text{INCH}}{\text{mm}}$

LEADED DESIGN DATA

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

LEAD MATERIAL: Copper clad steel

LEAD FINISH: Tin / Lead

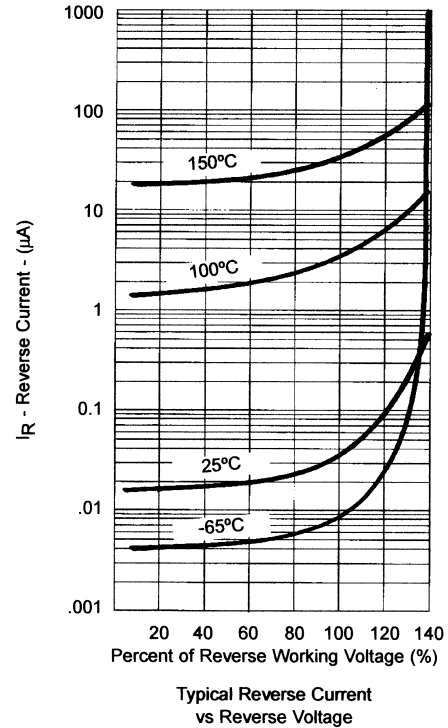
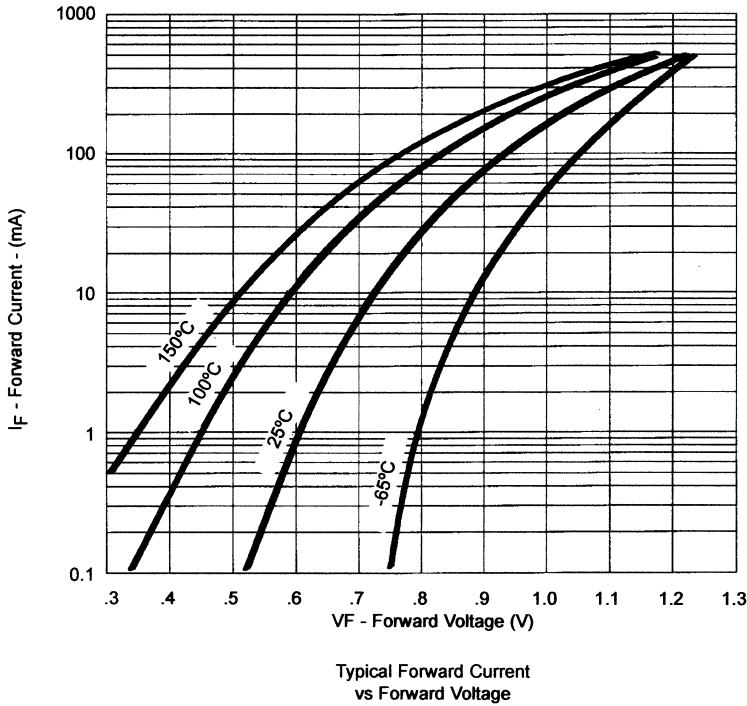
THERMAL RESISTANCE: ($R_{\theta JL}$): 250 °C/W maximum at $L = 0.375$ in

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

POLARITY: Cathode end is banded.



Graphs



NOTE : All temperatures shown on graphs are junction temperatures

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