

Silicon Switching Diode

Rev. V1

Features

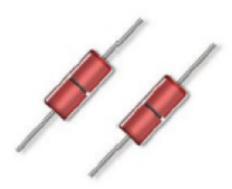
- Available in JAN, JANTX, and JANTXV per MIL-PRF-19500/116
- · Metallurgically Bonded
- Hermetically Sealed
- Double Plug Construction

Maximum Ratings

Operating & Storage Temperature: -65°C to +200°C

Operating Current: 200 mA @ T_A = +25°C

Derating Factor: 1.14 mA/°C above $T_A = +25$ °C Surge Current A: 2.00 A, sinewave, $P_A = 8.3$ ms

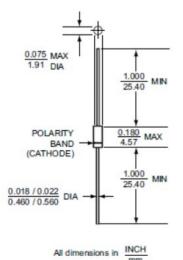


Electrical Specifications @ +25°C (unless otherwise Specified)

JEDEC TYPE#	VBR @ 100 μA	VRWM	Ю	Vf1 IF = 10 mA	Vf2 IF = 50 mA	Trr ¹	IR1 @ 20 Vdc	IR2 @ 75 Vdc	IR3 @ 20 Vdc T _A =150°C	IR4 @ 75 Vdc T _A =150°C	Capacitance @ 0 V	Capacitance @1.5 V
	Volts	Volts (pk)	mA	Vdc	Vdc	nsec	nA	μΑ	μΑ	μА	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: ($R_{\Theta,II}$): 250 °C/W maximum at L = 0.375 in

THERMAL IMPEDANCE: (Z_{O,JX}): 70 °C/W maximum

POLARITY: Cathode end is banded.

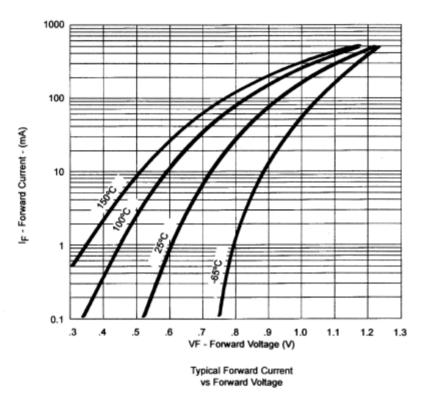
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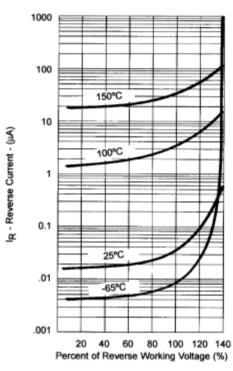


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Graphs





Typical Reverse Current vs Reverse Voltage

NOTE: All temperatures shown on graphs are junction temperatures

1N914 & 1N4148-1



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