Silicon Switching Diodes





Features

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

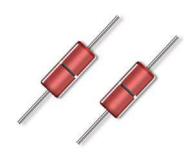
Maximum Ratings

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: 2A, sinewave, $P_W = 8.3 \text{ ms}$

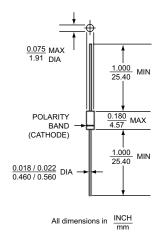


Electrical Specifications @ +25 °C (Unless Otherwise Specified)

JEDEC TYPE Number	V _{BR} @ 100 ∏A	V _{RWM}	lO	V_{f1} $I_F = 10 \text{ mA}$	V_{f2} $I_F = 50 \text{ mA}$	T _{rr} (Note 1)	I _{R1} @ 20 Vdc	_	I _{R3} @ 20 Vdc T _A =150°C	I _{R4} @ 75 Vdc T _A =150°C	Capacitance @ 0V	Capacitance @ 1.5 V
	Volts	Volts (pk)	mA	Vdc	Vdc	nsec	nA	ΠA	□A	ΠA	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

Note1: $I_F = I_R = 10$ mA, $R_L = 100$ 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

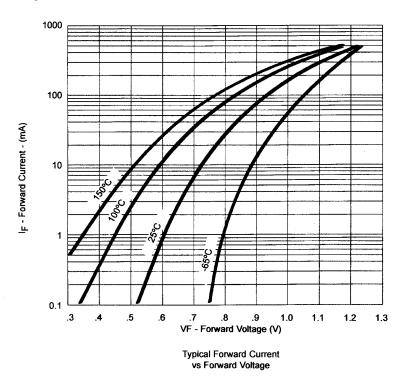
THERMAL IMPEDANCE: (Z_{O.JX}): 70 °C/W maximum

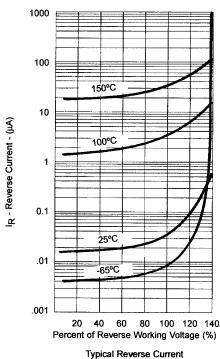
POLARITY: Cathode end is banded.





Graphs





Typical Reverse Currer vs Reverse Voltage

NOTE: All temperatures shown on graphs are junction temperatures

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