# Silicon Switching Diodes



### **Features**

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

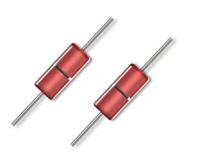
## **Maximum Ratings**

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

Operating Current: 200 mA @  $T_A = +25^{\circ}C$ 

Derating Factor: 1.14 mA/°C above  $T_A = +25$ °C

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



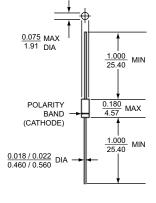
A passion for performance

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

JEDEC TYPE Number	V <sub>BR</sub> @ 100 μA	V <sub>RWM</sub>	10	$V_{f1}$ I <sub>F</sub> = 10 mA	$V_{f2}$ I <sub>F</sub> = 50 mA	T <sub>rr</sub> (Note 1)	I <sub>R1</sub> @ 20 Vdc	I <sub>R2</sub> @ 75 Vdc	I <sub>R3</sub> @ 20 Vdc T <sub>A</sub> =150°C	I <sub>R4</sub> @ 75 Vdc T <sub>A</sub> =150°C	Capacitance @ 0V	Capacitance @1.5 V
	Volts	Volts (pk)	mA	Vdc	Vdc	nsec	nA	μA	μA	μΑ	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  $\frac{INCH}{mm}$ 

#### LEADED DESIGN DATA

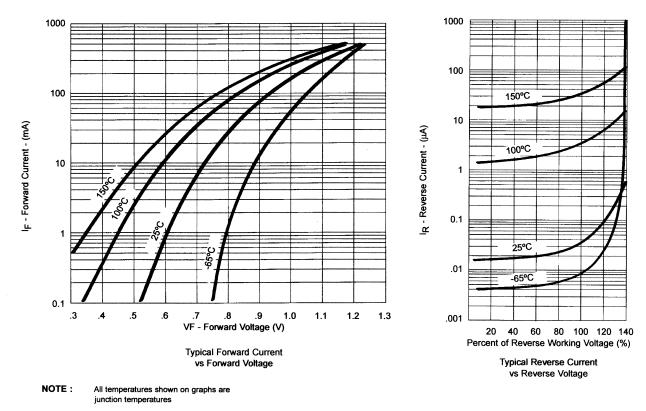
CASE: Hermetically sealed glass case per MIL-S-19500/116, DO – 35 LEAD MATERIAL: Copper clad steel LEAD FINISH: Tin / Lead THERMAL RESISTANCE: ( $R_{\Theta JL}$ ): 250 °C/W maximum at L = 0.375 in THERMAL IMPEDANCE: ( $Z_{\Theta JX}$ ): 70 °C/W maximum POLARITY: Cathode end is banded.



Revision Date: 9/15/2010 New Product



# Graphs



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