1N914 & 1N4148-1

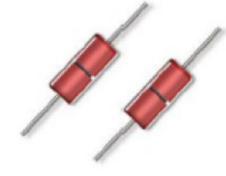
Silicon Switching Diode

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 $+200^{\circ}$ C Operating Current: 200 mA @ T_A = $+25^{\circ}$ C Derating Factor: 1.14 mA/°C above T_A = $+25^{\circ}$ C Surge Current A: 2.00 A, sinewave, Pw = 8.3 ms

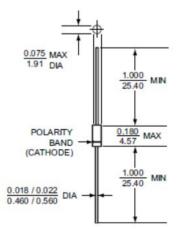


Electrical Specifications @ +25°C (unless otherwise Specified)

JEDEC TYPE#	VBR @ 100 μA	VRWM	10	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	μA	μΑ	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



All dimensions in INCH

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.

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Graphs

1000

100

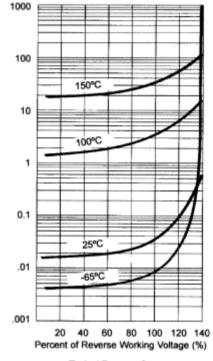
10

NOTE :

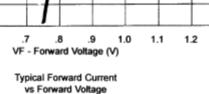
IF - Forward Current - (mA) R - Reverse Current - (JuA) 1 650 0.1 .3 .4 .5 .6 .7 .8 .9 1.0 1.1 1.2 1.3 VF - Forward Voltage (V)

All temperatures shown on graphs are

junction temperatures



Typical Reverse Current vs Reverse Voltage





2

Silicon Switching Diode



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