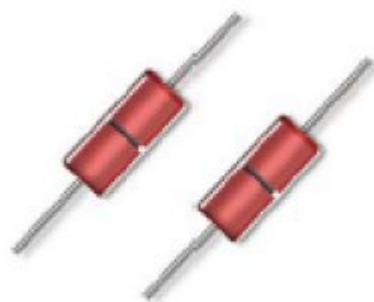


Silicon Switching Diode

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Features

- Available in JAN, JANTX, and JANTXV per MIL-PRF-19500/231
- Metallurgically Bonded
- Hermetically Sealed
- Double Plug Construction



Maximum Ratings

Operating & Storage Temperature: -65°C to +175°C

Operating Current: 300 mA @ $T_A = +25^\circ\text{C}$

Derating: 2 mA DC/°C above $T_L = +75^\circ\text{C}$ @ $L = 3/8"$

Surge Current A: 2 A (pk) $t_P = 8.3$ ms, $V_{RM} = 0$

Surge Current B: 4 A (pk) $t_P = 1$ μs , $V_{RM} = 0$

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

TYPE #	V_{BR} $I_R = 10 \mu\text{A}$	V_{RWM}	I_{R1} $V_R = 50 \text{ Vdc}$ $T_A = 25^\circ\text{C}$	I_{R2} $V_R = 50 \text{ Vdc}$ $T_A = 150^\circ\text{C}$	C $I_R = 0; f = 1 \text{ MHz}$ ac signal = 50 mV (p-P)	T_{rr} $I_F = I_R = 10 \text{ to } 100 \text{ mA dc}$ $R_L = 100 \Omega$
	V dc	V (pk)	$\mu\text{A dc}$	$\mu\text{A dc}$	pF	ns
1N3600	75	50	0.1	100	2.5	4.0
1N4150, -1	75	50	0.1	100	2.5	4.0

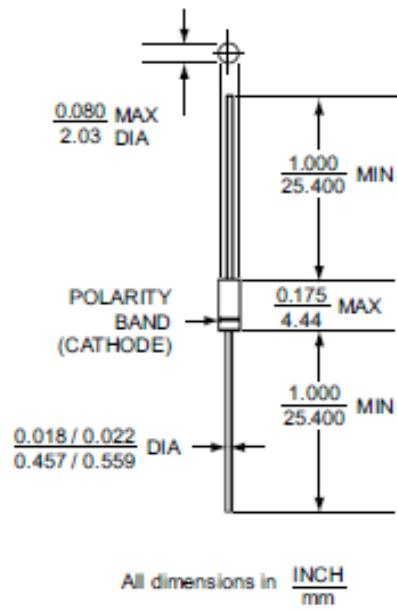
Forward Voltage Limits - All Types

Limits	V_{F1} $I_F = 1 \text{ mA dc}$	V_{F2} $I_F = 10 \text{ mA dc}$	V_{F3} $I_F = 50 \text{ mA dc}$ (Pulsed)	V_{F4} $I_F = 100 \text{ mA dc}$ (Pulsed)	V_{F5} $I_F = 200 \text{ mA dc}$ (Pulsed)
	V dc	V dc	V dc	V dc	V dc
minimum	0.540	0.660	0.760	0.820	0.870
maximum	0.620	0.740	0.860	0.920	1.000

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Outline



LEADED DESIGN DATA

CASE: Hermetically sealed glass case per MIL-S-19500/231, DO – 35

LEAD MATERIAL: Copper clad steel

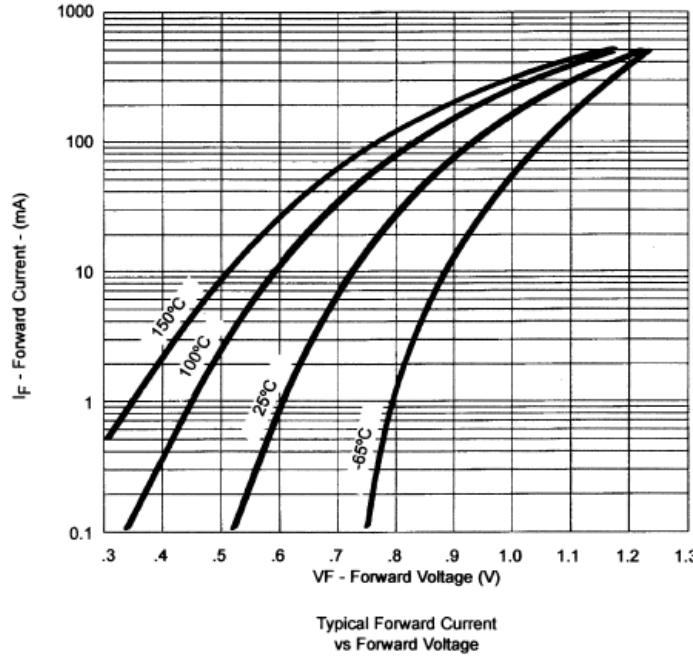
LEAD FINISH: Tin / Lead

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

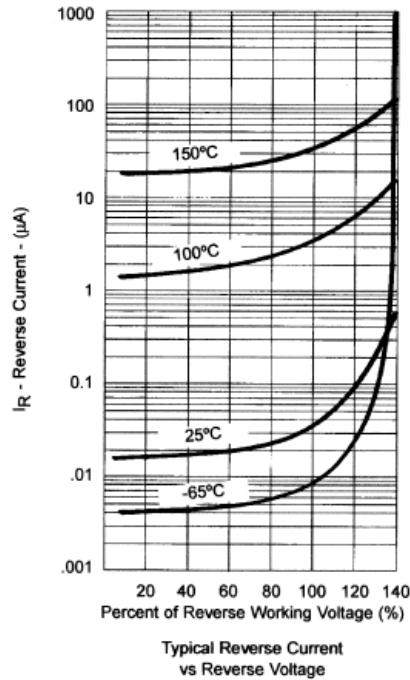
THERMAL IMPEDANCE: ($Z_{\Theta JX}$): 70 °C/W maximum

POLARITY: Cathode end is banded.

Graphs



NOTE : All temperatures shown on graphs are junction temperatures



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