1N3600, 1N4150 & 1N4150-1



Silicon Switching Diode

Rev. V1

Features

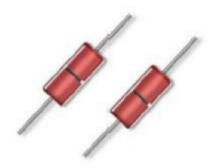
- Available in JAN, JANTX, and JANTXV per MIL-PRF-19500/231
- Metallurgically Bonded
- · Hermetically Sealed
- Double Plug Construction

Maximum Ratings

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

Operating Current: 300 mA @ T_A = +25°C

Derating: 2 mA DC/°C above T_L = +75°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 μ s, V_{RM} = 0



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

TYPE#	V _{BR} I _R = 10 μA	V_{RWM}	I _R 1 V _R = 50 Vdc T _A = 25°C	I _R 2 V _R = 50 Vdc T _A =150°C	C I _R = 0; f = 1 MHz ac signal = 50 mV (p-P)	Trr $I_F = I_R = 10 \text{ to } 100 \text{ mA dc}$ $R_L = 100 \Omega$
	V dc	V (pk)	μ A dc	μ 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

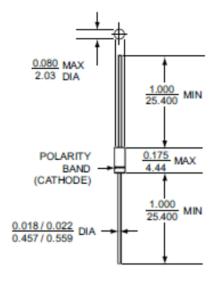
Limits	V _F 1 I _F = 1 mA dc	V _F 2 I _F = 10 mA dc	V _F 3 I _F = 50 mA dc (Pulsed)	V _F 4 I _F = 100 mA dc (Pulsed)	V_F5 $I_F = 200 \text{ mA dc}$ (Pulsed)
	V dc	V dc	V dc	V dc	V dc
minimum	0.540	0.660	0.760	0.820	0.870
maximum	0.620	0.740	0.860	0.920	1.000



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Outline



All dimensions in INCH

LEADED DESIGN DATA

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

LEAD MATERIAL: Copper clad steel

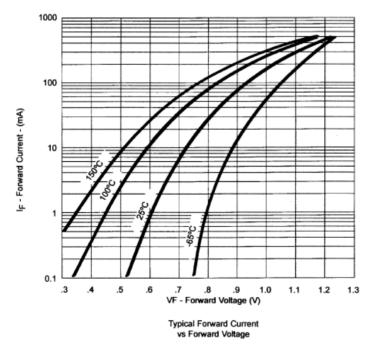
LEAD FINISH: Tin / Lead

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

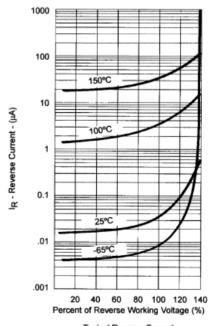
THERMAL IMPEDANCE: (Z_{O,JX}): 70 °C/W maximum

POLARITY: Cathode end is banded.

Graphs



NOTE: All temperatures shown on graphs are junction temperatures



Typical Reverse Current vs Reverse Voltage

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