# Silicon Switching Diodes 1N4150, 1N4150-1 & 1N3600

#### **Features**

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

### **Maximum Ratings**



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

TYPE Number	V <sub>BR</sub> I <sub>R</sub> = 10 μA	∨ <sub>RWM</sub>	I <sub>R1</sub> V <sub>R</sub> = 50 Vdc TA = 25 °C	$I_{R2}$ $V_R = 50 \text{ Vdc}$ $T_A = 150^{\circ}\text{C}$	$C \\ I_{R} = 0; f = 1 \text{ MHz} \\ ac \text{ signal} = 50 \text{ mV (p-P)}$	$T_{rr}$ $I_F = I_R = 10 \text{ to } 100 \text{ mA dc}$ $R_L = 100 \Omega$
	V dc	V (pk)	μA dc	μA 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 <sub>F</sub> = 1 mA dc	$V_{F2}$ I <sub>F</sub> = 10 mA dc	$V_{F3}$ I <sub>F</sub> = 50 mA dc (Pulsed)	$V_{F4}$ I <sub>F</sub> = 100 mA dc (Pulsed)	$V_{F5}$ I <sub>F</sub> = 200 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

# **Outline Drawing**



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: ( $R_{\Theta JL}$ ): 250 °C/W maximum at L = 0.375 in THERMAL IMPEDANCE: ( $Z_{\Theta JX}$ ): 70 °C/W maximum

**POLARITY:** Cathode end is banded.





# Graphs



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