- 1N4150-1 AVAILABLE IN JAN, JANTX, AND JANTXV PER MIL-PRF-19500/231
- 1N3600 AVAILABLE IN JAN, JANTX, AND JANTXV PER MIL-PRF-19500/231
- SWITCHING DIODES
- HERMETICALLY SEALED
- METALLURGICALLY BONDED
- DOUBLE PLUG CONSTRUCTION

# 1N4150 and 1N4150-1 and 1N3600

## MAXIMUM RATINGS

Junction Temperature: -65°C to +175°C
Storage Temperature: -65°C to +175°C
Operating Current: 300 mA @ $T_A$ = +25°C
Derating: 2.0 mA dc/°C Above $T_L$ = + 75°C @ L = 3/8"
Forward Surge Current: 4A, (tp = 1µs); 0.5A (tp = 1s)

**ELECTRICAL CHARACTERISTICS** @ 25°C, unless otherwise speci½ed.

| Type | $V_{BR}$ $I_R$ = 10 µA | $V_{RWM}$ | $I_{R1}$ $V_R$ = 50 V dc $T_A$ = 25°C | $^1 I_{R2}$ $V_R$ = 50 V dc $T_A$ = 150°C | C $V_R$ = 0; f = 1 Mhz; ac signals = 50 mV (p-p) | $t_{rr}$ $I_F$=$I_R$=10 to 100 mA dc $R_L$ = 100 ohms |
|---|---|---|---|---|---|---|
| | V dc | V (pk) | µA dc | µA dc | pF | ns |
| 1N3600 | 75 | 50 | 0.1 | 100 | 2.5 | 4 |
| 1N4150,-1 | 75 | 50 | 0.1 | 100 | 2.5 | 4 |

**FORWARD VOLTAGE LIMITS – ALL TYPES**

| Limits | $V_{F1}$ $I_F$ = 1 mA dc | $V_{F2}$ $I_F$ = 10 mA dc | $V_{F3}$ $I_F$ = 50 mA dc (Pulsed) | $V_{F4}$ $I_F$ = 100 mA dc (Pulsed) | $V_{F5}$ $I_F$ = 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 |

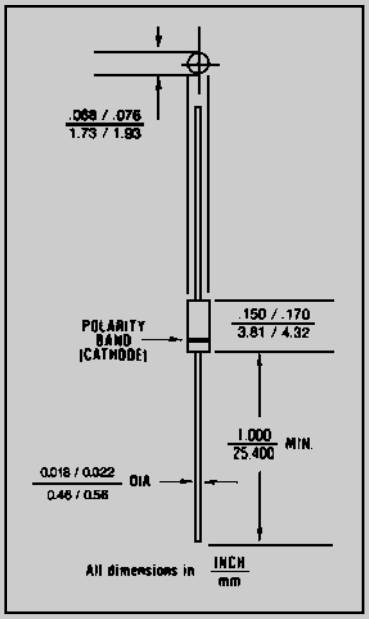



**FIGURE 1**

## DESIGN DATA

**CASE:** Hermetically sealed glass case per MIL-S-19500/231 D0-35 outline.

**LEAD MATERIAL:** Copper clad steel.

**LEAD FINISH:** Tin / Lead

**THERMAL RESISTANCE:** ($R_{\Theta JL}$): 250 °C/W maximum at L = .375

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

**POLARITY:** Cathode end is banded.

**MOUNTING POSITION:** Any.


Microsemi

6 LAKE STREET, LAWRENCE, MASSACHUSETTS 01841
PHONE (978) 620-2600 FAX (781) 689-0803
WEBSITE: http://www.microsemi.com

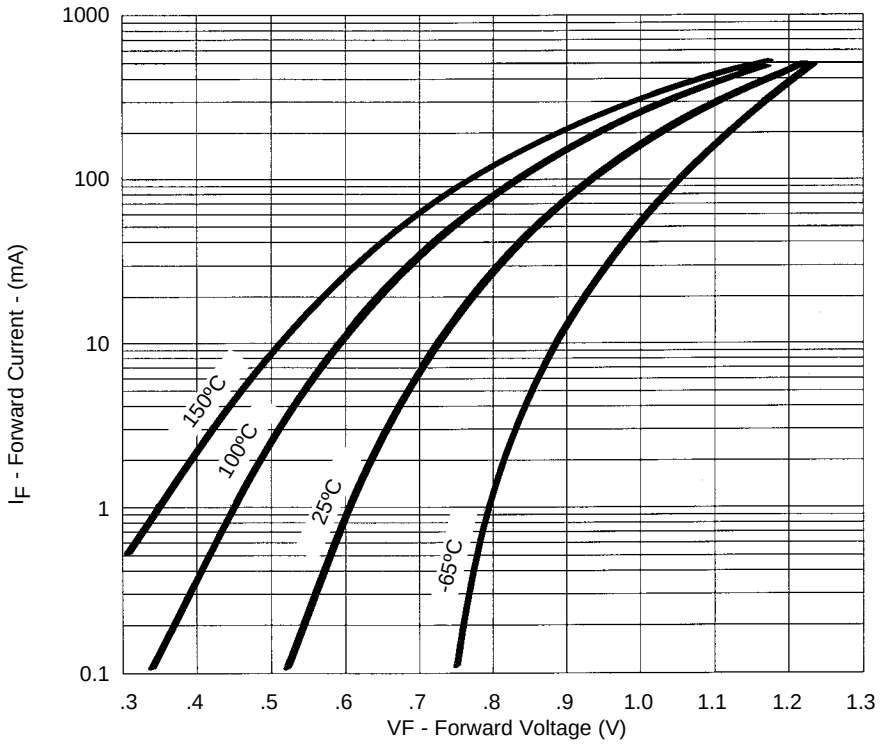
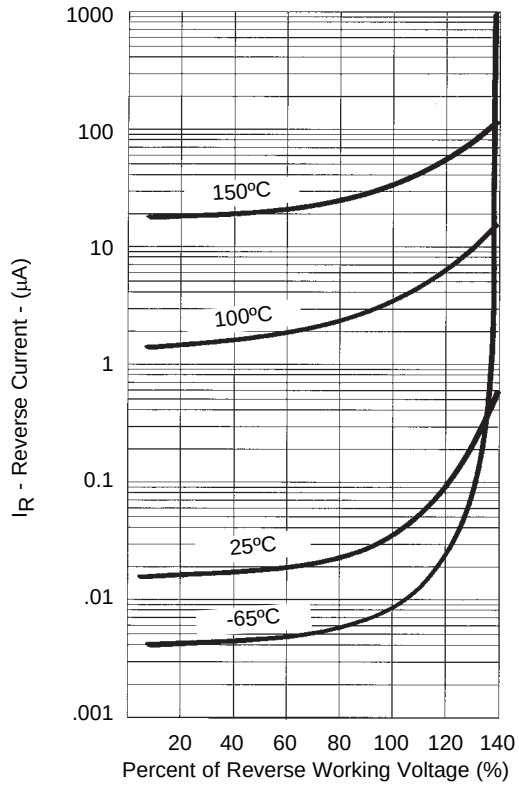



**FIGURE 2**
Typical Forward Current
vs Forward Voltage




**NOTE :** All temperatures shown on graphs are junction temperatures

**FIGURE 3**
Typical Reverse Current
vs Reverse Voltage

littlediode
COMPONENTS FOR ALL

Littlediode supplies new, hard to find or obsolete electronic components and semiconductors all over the world.

With over two million different components listed you are sure to find the part you need.

Feel free to visit us today at our online store:

**LittleDiode.com**

Looking forward to providing you with the best possible service.