

Microsemi Corp.
The diode experts

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**1N4150 and
1N4150-1**



FEATURES

- MICROMINIATURE PACKAGE
- VOIDLESS HERMETICALLY SEALED GLASS PACKAGE
- METALLURGICALLY BONDED
- JANS/TXV, TX TYPES AVAILABLE PER MIL-S-19500/231

MAXIMUM RATINGS

Operating Temperature: -65°C to +150°C
Storage Temperature: -65°C to +200°C
Surge Current: 4 Amps ($t_p = 1\mu s$); 0.5 A ($t_p = 1s$)

ELECTRICAL CHARACTERISTICS at 25°C unless otherwise specified.

| V_{BR} | V_{RWM} | I_0 | I_R @ $V_R = 50Vdc$ | I_R @ $V_R = 50Vdc$ | t_{rr} (Note 1) | t_{rr} (Note 2) |
|----------|------------|-------|--------------------------|--------------------------|----------------------|----------------------|
| Volts | Volts (pk) | mA | μA dc | μA dc* | nsec | nsec |
| 75 | 50 | 200 | 0.1 | 100 | 4 | 6 |

* $T_A = 150^\circ C$

| CAPACITANCE $V_R = 0$ Volts 1 mHz, 50 mVpp | V_{f1} @ $I_f = 1mA dc$ | V_{f2} @ $I_f = 10mA$ | V_{f3} @ $I_f = 50mA$ (pulsed) | V_{f4} @ $I_f = 100mA$ (pulsed) | V_{f5} @ $I_f = 200mA$ (pulsed) |
|--|------------------------------|----------------------------|--|---|---|
| pF | Vdc | Vdc | Vdc | Vdc | Vdc |
| 2.5 | 0.54 - 0.62 | 0.66 - 0.74 | 0.76 - 0.86 | 0.82 - 0.92 | 0.87 - 1.00 |

NOTE 1: $I_F = I_R = 10 - 200 mA dc$, $R_L = 100$ ohms.

NOTE 2: $I_F = I_R = 200 - 400 mA dc$, $R_L = 100$ ohms.

**MILITARY
SWITCHING
DIODES**

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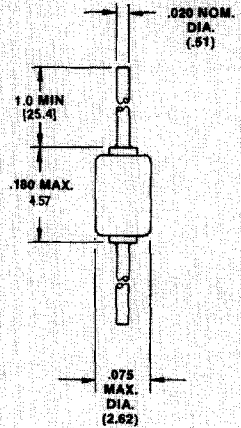


FIGURE 1

**MECHANICAL
CHARACTERISTICS**

CASE: Hermetically sealed glass case (DO-35).

LEAD MATERIAL: Tinned copper clad steel.

MARKING: Body painted, alpha numeric.

POLARITY: Cathode band.