

**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.  
CONSULT FACTORY FOR QUALIFIED JANS 1N6640 IN MIL-S-19500/609. THIS SUPERCEDES JANS4150.

**MAXIMUM RATINGS**

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

**ELECTRICAL CHARACTERISTICS** at 25°C unless otherwise specified.

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

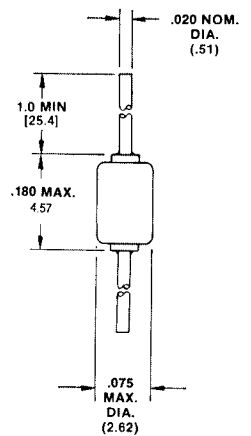
\* $T_A = 150^\circ C$

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**



**FIGURE 1  
DO-35**

**MECHANICAL  
CHARACTERISTICS**

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

LEAD MATERIAL: Tinned copper clad steel.

MARKING: Body painted, alpha numeric.

POLARITY: Cathode band.