

New Jersey Semi-Conductor Products, Inc.

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- 1N4454 and IN4454-1
- SWITCHING DIODE
- HERMETICALLY SEALED
- METALLURGICALLY BONDED
- DOUBLE PLUG CONSTRUCTION

**1N4454
1N4454-1**

MAXIMUM RATINGS

Junction Temperature: -55°C to +175°C
Storage Temperature: -55°C to +175°C
Operating Current: 200 mA @ $T_A = +25^\circ\text{C}$
Derating Factor: 1.33 mA/°C Above $T_A = +25^\circ\text{C}$
Surge Current A: 1A (pk), $P_W = 1 \text{ sec}$
Surge Current B: 4A (pk), $P_W = 1 \mu\text{s}$

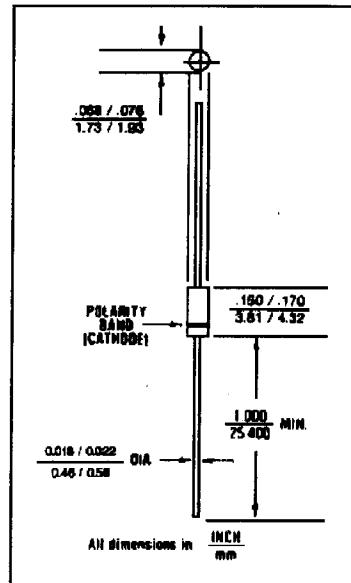


FIGURE 1

V_{BR} @5µA	V_{RWM}	I_0	V_{f1} @ $I_F = 10 \text{ mA}$	V_{f2} @ $I_F = 10 \text{ mA}$ $T_A = 150^\circ\text{C}$	t_{rr}
Volts	Volts (pk)	mA	V dc	V dc	n sec
75	50	200	1.0	0.7	4

I_{R1} @ 50 V dc	I_{R2} @ 50 V $T_A = 150^\circ\text{C}$	CAPACITANCE @ 0 V
µA	µA	pF
0.1	100	2.0

DESIGN DATA

CASE: Hermetically sealed glass case
D0-35 outline

LEAD MATERIAL: Copper clad steel.

LEAD FINISH: Tin / Lead

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

THERMAL IMPEDANCE: (Z_{QJX}): 70 °C/W maximum

POLARITY: Cathode end is banded.

MOUNTING POSITION: Any.



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