- 1N4454 and IN4454-1 AVAILABLE IN JAN, JANTX, AND JANTXV PER MIL-PRF-19500/144
- 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°C
Derating Factor: 1.33 mA/°C Above T_A = + 25°C
Surge Current A: 1A (pk), P_W = 1 sec
Surge Current B: 4A (pk), P_W = 1 µs

ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise specified.

V_{BR} @5µA	V_{RWM}	I_0	V_{f1} @I_F = 10 mA	V_{f2} @I_F = 10 mA T_A = 150°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°C	CAPACITANCE @ 0 V
µA	µA	pF
0.1	100	2.0

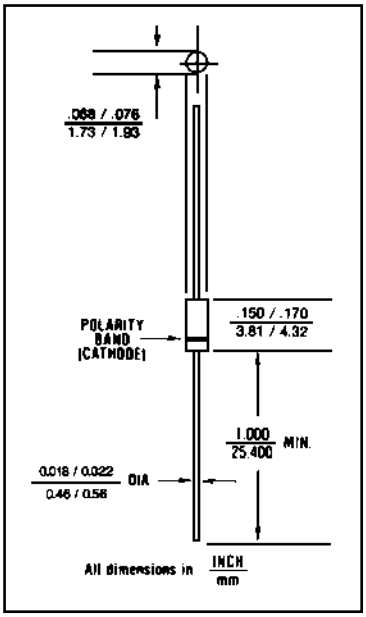

FIGURE 1

DESIGN DATA

CASE: Hermetically sealed glass case per MIL-S-19500/144 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.

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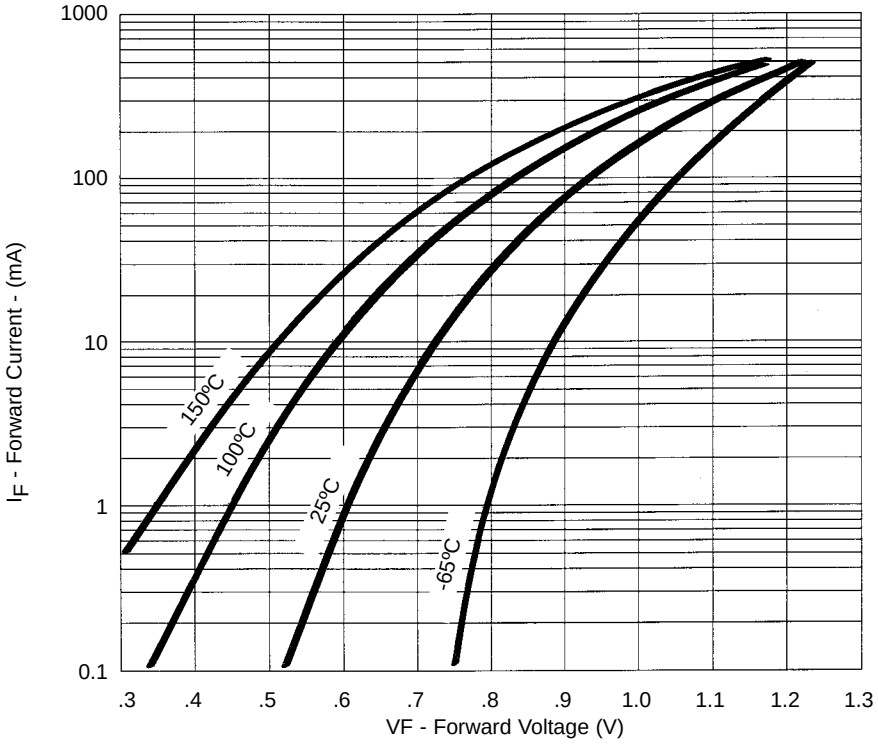

FIGURE 2
Typical Forward Current
vs Forward Voltage

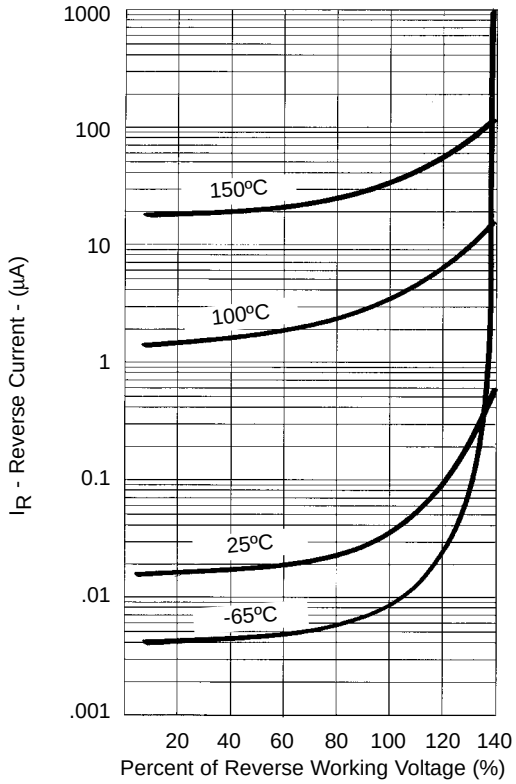

FIGURE 3
Typical Reverse Current
vs Reverse Voltage

NOTE : All temperatures shown on graphs are junction temperatures

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