



**THE DATASHEET OF  
JAN1N4454-1**



- 1N4454 and 1N4454-1 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 @  $T_A = +25^\circ\text{C}$   
 Derating Factor: 1.33 mA/°C Above  $T_A = +25^\circ\text{C}$   
 Surge Current A: 1A (pk),  $P_W = 1$  sec  
 Surge Current B: 4A (pk),  $P_W = 1$   $\mu\text{s}$

ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise specified.

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

| $I_{R1}$<br>@ 50 V dc | $I_{R2}$<br>@ 50 V<br>$T_A = 150^\circ\text{C}$ | CAPACITANCE<br>@ 0 V |
|-----------------------|---|----------------------|
| $\mu\text{A}$         | $\mu\text{A}$                                   | pF                   |
| 0.1                   | 100   | 2.0                  |

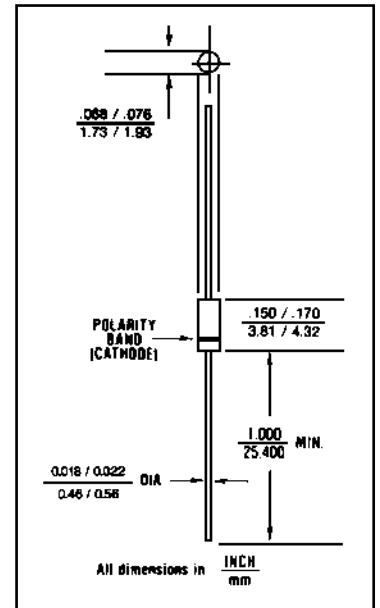


FIGURE 1

### 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.

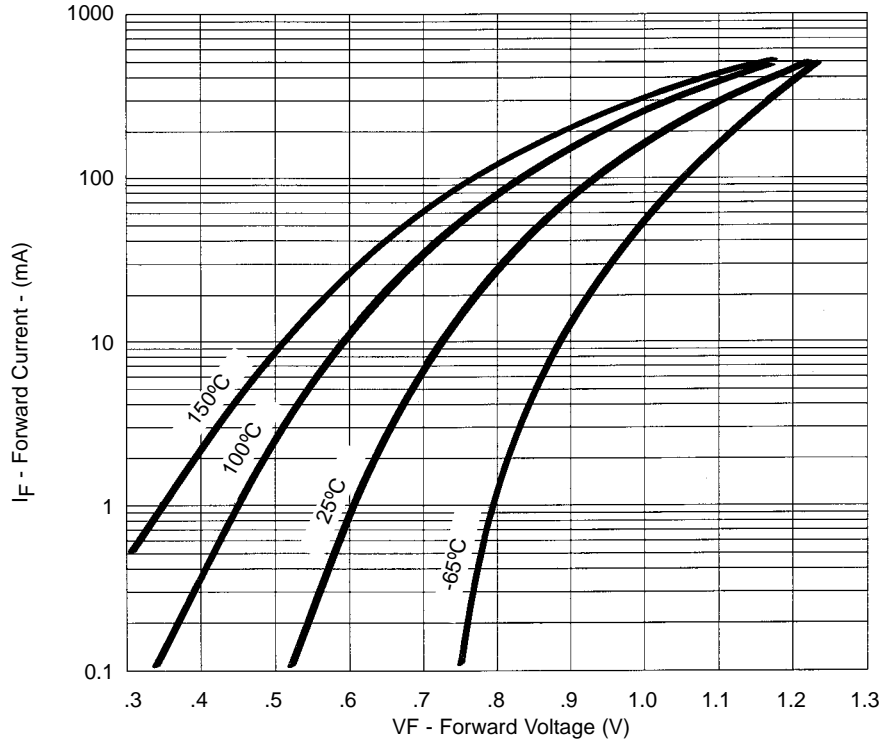
**MOUNTING POSITION:** Any.



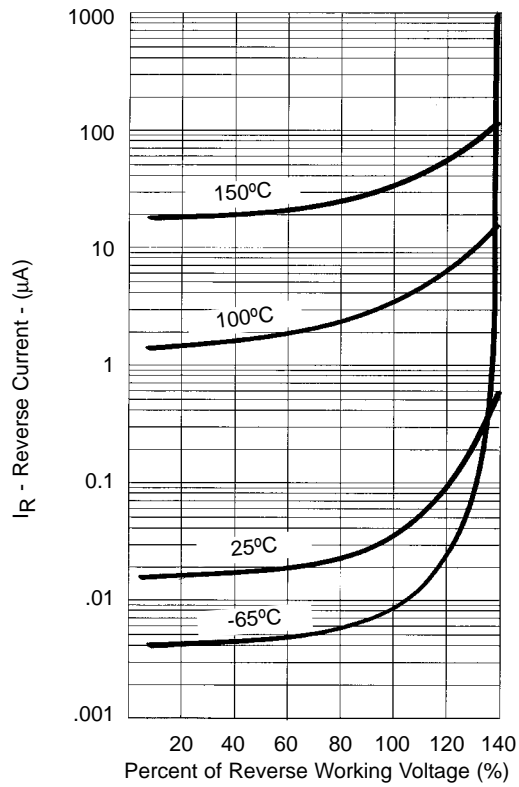
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# IN4454 and 1N4454-1



**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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