



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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- 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), $P_W = 1$ μs

ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise specified.

V_{BR} @5 μA	V_{RWM}	I_0	V_{f1} @ $I_F = 10$ mA	V_{f2} @ $I_F = 10$ 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

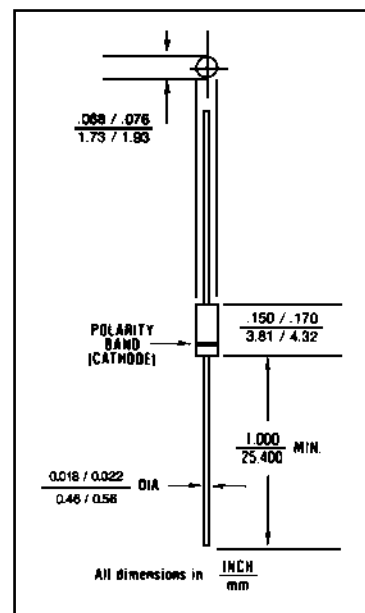


FIGURE 1

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.



COMPENSATED DEVICES INCORPORATED

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IN4454 and 1N4454-1

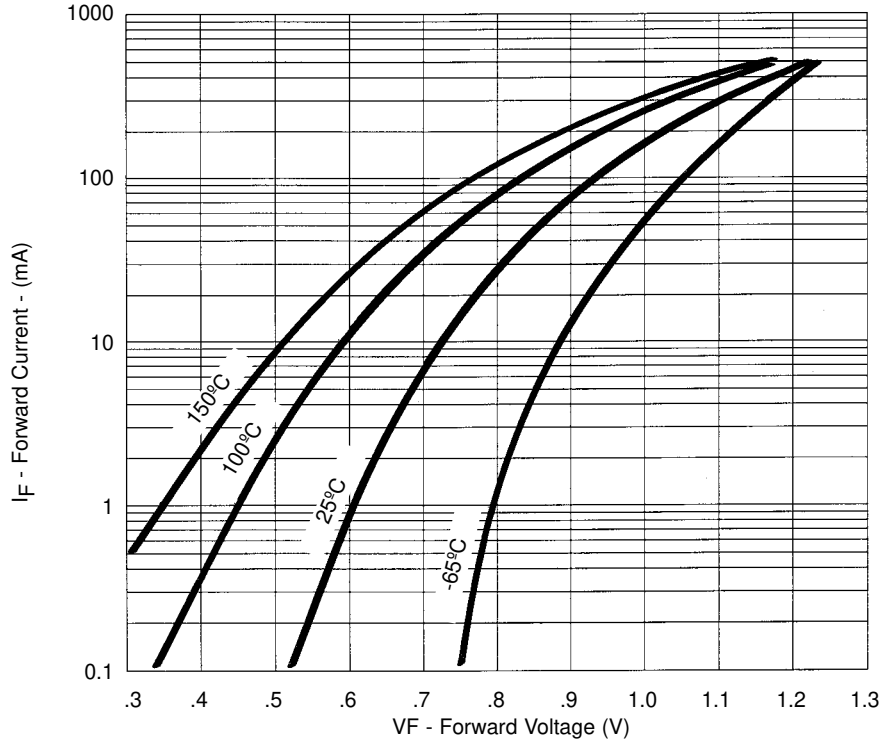


FIGURE 2
Typical Forward Current
vs Forward Voltage

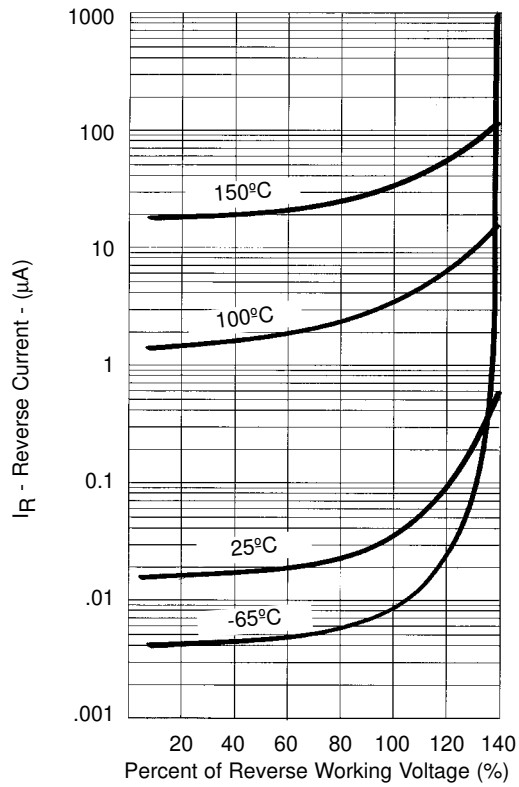


FIGURE 3
Typical Reverse Current
vs Reverse Voltage

NOTE : All temperatures shown on graphs are junction temperatures