1N4150

FAST SWITCHING DIODES

Features

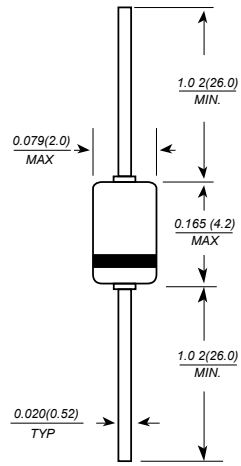
- Ideal for Fast Logic Applications
- Ultra Fast Switching
- High Reliability
- High Conductance

Mechanical Data

- Case: DO-35, Plastic
- Leads: Solderable per MIL-STD-202, Method 208
- Marking: Type Number
- Polarity: Cathode Band
- Weight: 0.13 grams (approx.)

RoHS COMPLIANT

DO-35(GLASS)



Dimensions in millimeters

Maximum Ratings and Thermal Characteristics (Rating at 25 °C ambient temperature unless otherwise specified.)

Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	75	V
Maximum Continuous Reverse Voltage	V_{RM}	50	V
Maximum Continuous Forward Current	I_F	200	mA
Maximum Power Dissipation	P_D	500	mW
Maximum Repetitive Peak Forward Current	I_{FRM}	600	mA
Maximum Surge Forward Current at t = 1s , Tj = 25°C	I_{FSM}	0.5	A
Maximum Junction Temperature	T_J	200	°C
Storage Temperature Range	T_S	-65 to + 200	°C

Electrical Characteristics (T_J = 25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse Current	I_R	V_R = 50 V V_R = 50 V , Tj = 150 °C	- -	- -	0.1 100	µA µA
Forward Voltage	V_F	I_F = 100 mA I_F = 200 mA	- -	- -	0.92 1.0	V
Diode Capacitance	Cd	f = 1MHz ; V_R = 0	-	-	2.5	pF
Reverse Recovery Time	Trr	I_F = 10 mA to 200 mA to I_R = 10 mA to 200 mA; R_L = 100 Ω ; measured at I_R = 0.1x I_F	-	-	4	ns

RATING AND CHARACTERISTIC CURVES (1N4150)

FIG. 1 MAXIMUM FORWARD CURRENT VERSUS AMBIENT TEMPERATURE

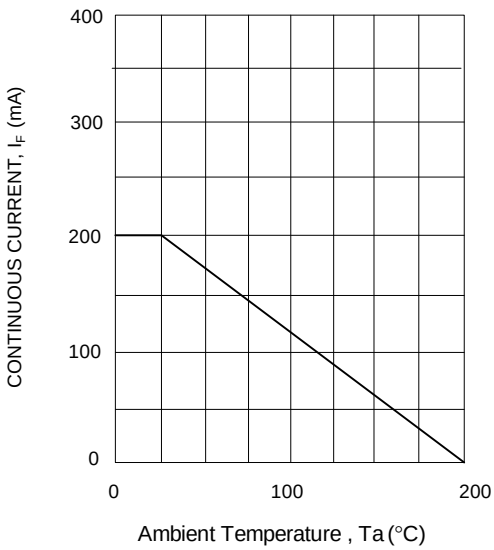


FIG. 2 TYPICAL FORWARD VOLTAGE

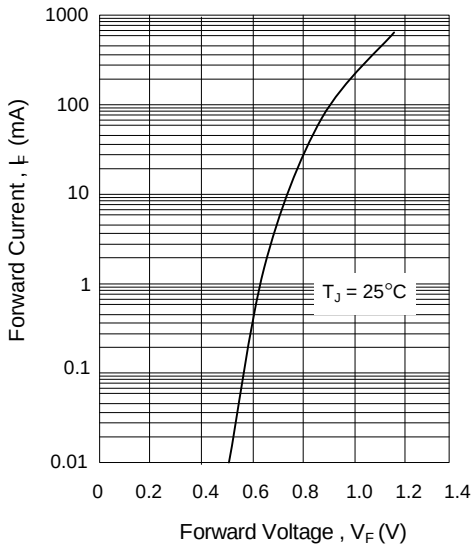


FIG. 3 TYPICAL DIODE CAPACITANCE AS A FUNCTION OF REVERSE VOLTAGE