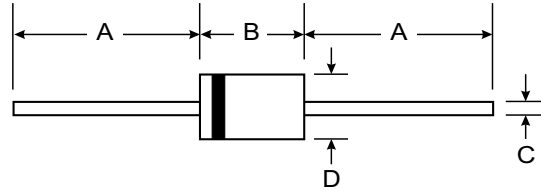


## Features

- 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.)

DO-35		
Dim	Min	Max
A	25.40	—
B	—	4.00
C	—	0.60
D	—	2.00
All Dimensions in mm		

## Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	1N4150	Unit
Non-Repetitive Peak Reverse Voltage @ $5.0\mu\text{A}$	$V_{RM}$	75	V
Peak Repetitive Reverse Voltage	$V_{RRM}$	50	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Blocking Voltage	$V_R$		
RMS Reverse Voltage	$V_{R(RMS)}$	35	V
Forward Continuous Current (Note 1)	$I_{FM}$	400	mA
Average Rectified Output Current (Note 1)	$I_O$	200	mA
Repetitive Peak Forward Current (Note 1)	$I_{FRM}$	600	mA
Non-Repetitive Peak Forward Surge Current @ $t \leq 1.0\text{s}$ @ $t = 1.0\mu\text{s}$	$I_{FSM}$	1.0 4.0	A
Power Dissipation (Note 1)	$P_d$	500	mW
Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{\theta JA}$	300	K/W
Operating and Storage Temperature Range	$T_J, T_{STG}$	-65 to +200	$^\circ\text{C}$

## Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Maximum Forward Voltage Drop	$V_{FM}$	0.54	0.62	V	$I_F = 1.0\text{mA}$ $I_F = 10\text{mA}$ $I_F = 50\text{mA}$ $I_F = 100\text{mA}$ $I_F = 200\text{mA}$
		0.66	0.74		
		0.76	0.86		
		0.82	0.92		
		0.87	1.0		
Maximum Peak Reverse Current	$I_{RM}$	—	100	nA $\mu\text{A}$	$T_A = 25^\circ\text{C}$ $T_A = 150^\circ\text{C}$
Junction Capacitance	$C_j$	—	2.5	pF	$V_R = 0\text{V}, f = 1.0\text{MHz}$
Reverse Recovery Time	$t_{rr}$	—	4.0	ns	$I_F = I_R = 200\text{mA}$ , $t_{rr} = 0.1 \times I_R, R_L = 100\Omega$
Forward Recovery Time	$t_{fr}$	—	10	ns	$I_F = 200\text{mA}, V_{FR} = 1.0\text{V}$

Note: 1. Valid provided that leads are kept at ambient temperature.