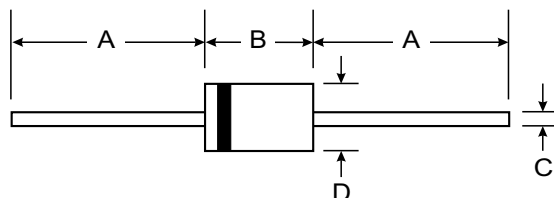


Features

- Fast Switching Speed
- General Purpose Rectification
- Silicon Epitaxial Planar Construction



Mechanical Data

- Case: DO-35
- Leads: Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Marking: Type Number
- 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 and Electrical Characteristics

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

Characteristic	Symbol	1N4148	1N4448	Unit	
Non-Repetitive Peak Reverse Voltage	V_{RM}	100		V	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	75		V	
RMS Reverse Voltage	$V_{R(RMS)}$	53		V	
Forward Continuous Current (Note 1)	I_{FM}	300	500	mA	
Average Rectified Output Current (Note 1)	I_O	150		mA	
Non-Repetitive Peak Forward Surge Current @ t = 1.0s @ t = 1.0μs	I_{FSM}	1.0 2.0		A	
Power Dissipation (Note 1) Derate Above 25°C	P_d	500 1.68		mW mW/°C	
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 +175		°C	
Characteristic	Symbol	Min	Max	Unit	Test Condition
Maximum Forward Voltage 1N4148 1N4448 1N4448	V_{FM}	— 0.62 —	1.0 0.72 1.0	V	$I_F = 10mA$ $I_F = 5.0mA$ $I_F = 100mA$
Maximum Peak Reverse Current	I_{RM}	—	5.0 50 30 25	μA μA μA nA	$V_R = 75V$ $V_R = 70V, T_j = 150^{\circ}C$ $V_R = 20V, T_j = 150^{\circ}C$ $V_R = 20V$
Capacitance	C_j	—	4.0	pF	$V_R = 0, f = 1.0MHz$
Reverse Recovery Time	t_{rr}	—	4.0	ns	$I_F = 10mA$ to $I_R = 1.0mA$ $V_R = 6.0V, R_L = 100\Omega$

Notes: 1. Valid provided that device terminals are kept at ambient temperature.

