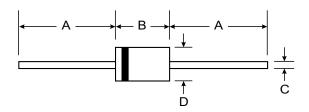
1N4148 / 1N4448

FAST SWITCHING DIODE

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				
Α	25.40					
В		4.00				
С		0.60				
D		2.00				
All Dimensions in mm						

Maximum Ratings @ T_A = 25 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)	Io	150		mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0s @ t = 1.0s	I _{FSM}	1.0 2.0		А
Power Dissipation (Note 1) Derate Above 25C	P _d	500 1.68		mW mW/C
Thermal Resistance, Junction to Ambient Air (Note 1)	RJA	300		K/W
Operating and Storage Temperature Range	T _j , T _{STG}	-65 to +175		С

Electrical Characteristics @ TA = 25 C unless otherwise specified

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	A A A nA	V _R = 75V V _R = 70V, T _j = 150 C V _R = 20V, T _j = 150 C V _R = 20V
Capacitance		Cj		4.0	pF	V _R = 0, f = 1.0MHz
Reverse Recovery Time		t _{rr}		4.0	ns	$I_F = 10 \text{mA} \text{ to } I_R = 1.0 \text{mA}$ $V_R = 6.0 \text{V}, R_L = 100$

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

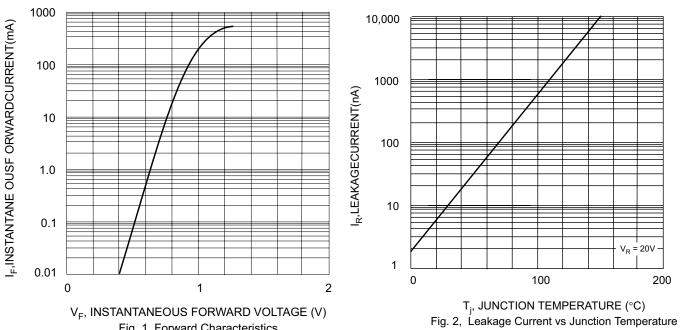


Fig. 1 Forward Characteristics