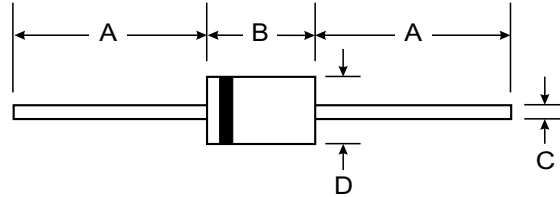


### Features

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

Characteristic	Symbol	1N4148	1N4448	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	100		V
Peak Repetitive Reverse Voltage	$V_{RRM}$	75		V
Working Peak Reverse Voltage	$V_{RWM}$	75		V
DC Blocking Voltage	$V_R$	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 @ $t = 1.0\text{s}$	$I_{FSM}$	1.0		A
@ $t = 1.0\mu\text{s}$		2.0		
Power Dissipation (Note 1) Derate Above $25^\circ\text{C}$	$P_d$	500	1.68	mW mW/ $^\circ\text{C}$
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		$^\circ\text{C}$

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

Characteristic	Symbol	Min	Max	Unit	Test Condition
Maximum Forward Voltage	$V_{FM}$	—	1.0	V	$I_F = 10\text{mA}$ $I_F = 5.0\text{mA}$ $I_F = 100\text{mA}$
Maximum Peak Reverse Current	$I_{RM}$	—	5.0 50 30 25	$\mu\text{A}$ $\mu\text{A}$ $\mu\text{A}$ nA	$V_R = 75\text{V}$ $V_R = 70\text{V}, T_J = 150^\circ\text{C}$ $V_R = 20\text{V}, T_J = 150^\circ\text{C}$ $V_R = 20\text{V}$
Capacitance	$C_j$	—	4.0	pF	$V_R = 0, f = 1.0\text{MHz}$
Reverse Recovery Time	$t_{rr}$	—	4.0	ns	$I_F = 10\text{mA}$ to $I_R = 1.0\text{mA}$ $V_R = 6.0\text{V}, R_L = 100\Omega$

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

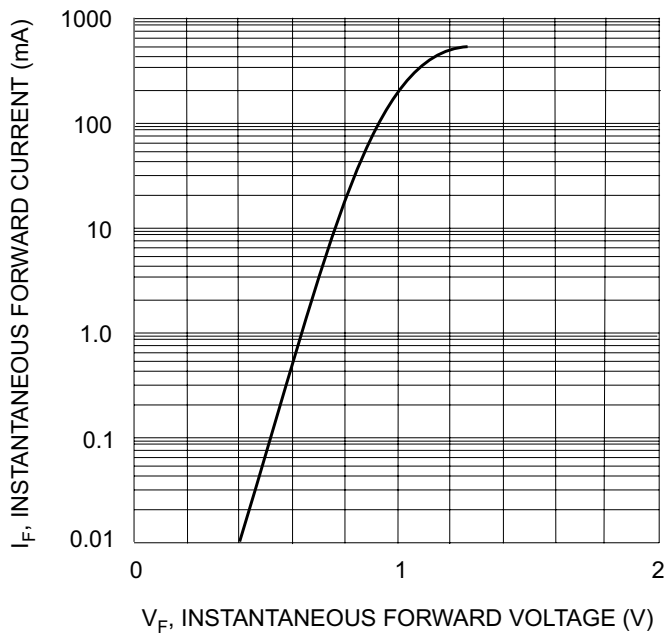


Fig. 1 Forward Characteristics

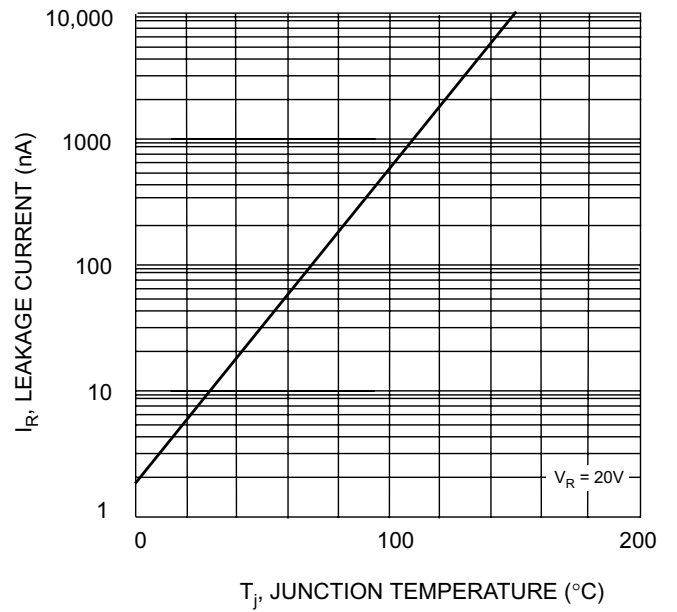


Fig. 2, Leakage Current vs Junction Temperature

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