

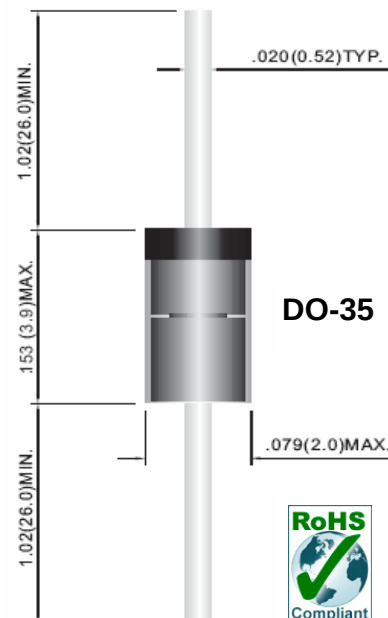
Switching Diodes

Features

- Fast Switching Speed
- High Conductance
- Electrically Identical to Standard JEDEC
- RoHS compliant

Mechanical Data

Case:	DO-35, Molded Glass
Terminals:	Axial leads, solderable per MIL-STD-202, Method 208
Weight:	0.13 gram



Maximum Ratings ($T_{Ambient}=25^{\circ}\text{C}$ unless noted otherwise)

Symbol	Description	1N4148	1N4448	Unit	Conditions
V_{RM}	Reverse Voltage	75		V	
V_{RRM}	Peak Reverse Voltage	100		V	
$I_{F(AV)}$	Forward Average Current	150		mA	Valid provided that leads at a distance of 8mm from case are kept at ambient temperature
I_{FSM}	Peak Forward Surge Current, Pulse Width=1.0us	2.0		A	
P_D	Power Dissipation above 25°C	500		mW	
V_F	Forward Voltage	Min	---	0.62 @ 5mA	V
		Max	1.0 @ 10mA	0.72 @ 5mA	
				1.0 @ 100mA	
I_R	Max. Reverse Current	0.025	0.025	μA	$V_R=20\text{V}$
		5.0	5.0		$V_R=75\text{V}$
C_D	Diode Capacitance	4.0		pF	$V_R=0\text{V}$, $f=1\text{MHz}$
T_{rr}	Reverse Recovery Time	4.0		ns	$I_F=10\text{mA}$, $I_R=1\text{mA}$, $V_R=6\text{V}$, $R_L=100\Omega$
T_J, T_{STG}	Operating Junction and Storage Temperature Range	-65 to +175		$^{\circ}\text{C}$	

Switching Diodes

1N4148 1N4448

Typical Characteristics Curves

Fig.1- Power Derating Curve

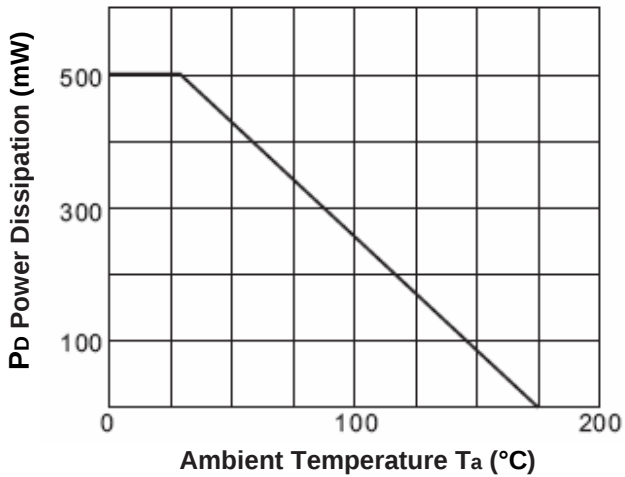


Fig.2- Typical Forward Characteristics

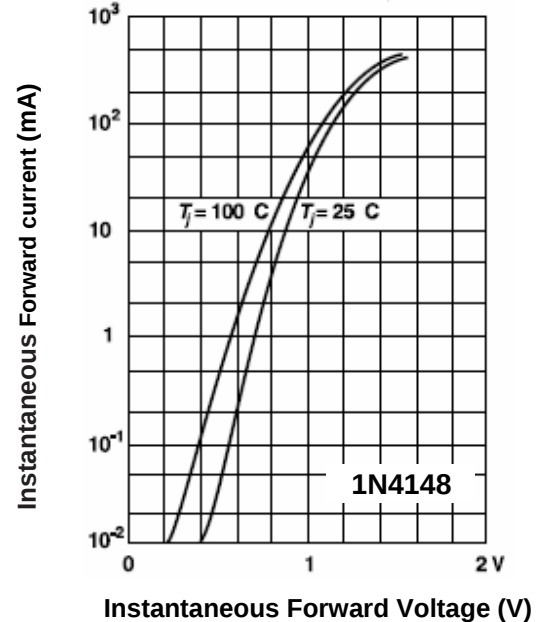


Fig.2- Typical Forward Characteristics

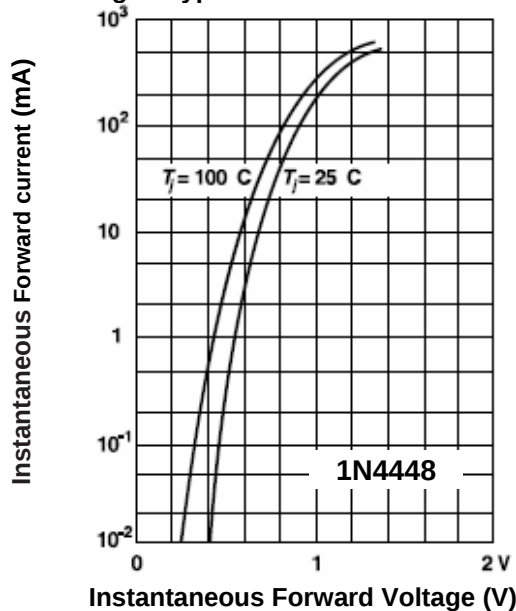


Fig.3- Leakage Current VS Junction Temperature

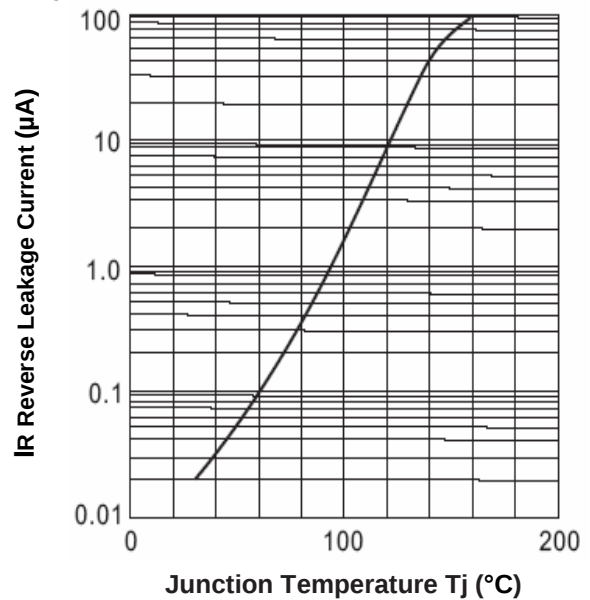
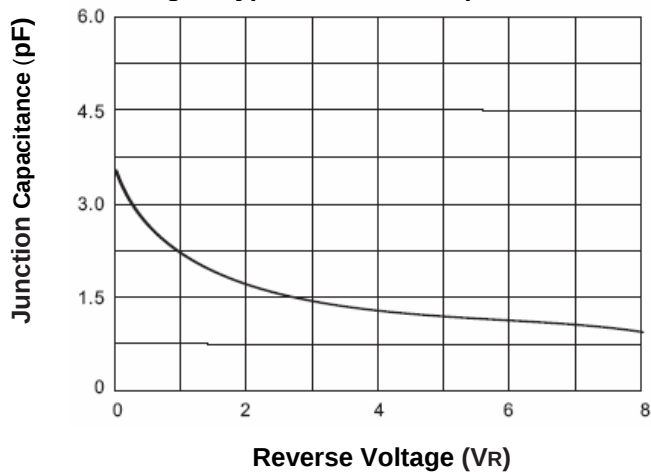
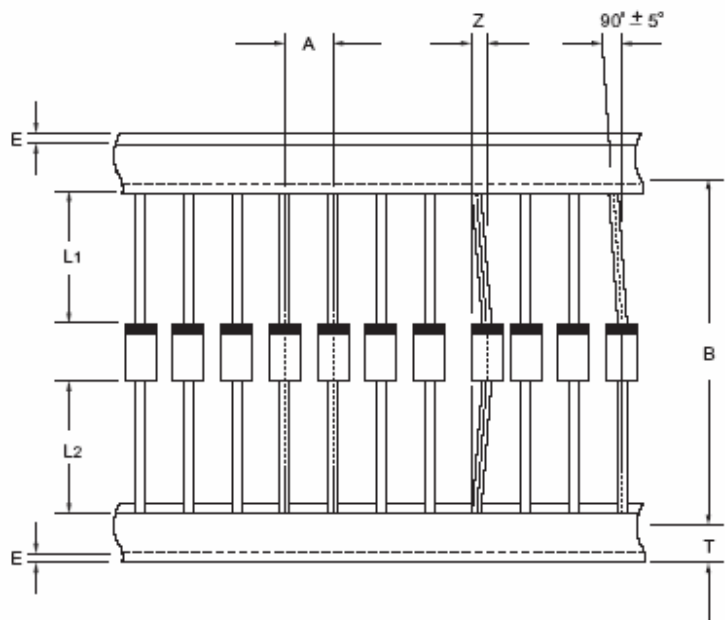


Fig.4- Typical Junction Capacitance



Taping Information (in mm)



Components Outline	A	B	L1,L2	T	E	Z
DO-35	5±0.5	52±1	Max.1.0	6±0.4	Max.0.8	Max.1.2

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