500 mW DO-34 Hermetically Sealed Glass Fast Switching Diodes

AXIAL LEAD
DO34

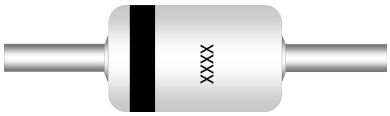
Absolute Maximum Ratings T_A = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
P_D	Power Dissipation	500	mW
T_{STG}	Storage Temperature Range	-65 to +200	°C
T_J	Operating Junction Temperature	+175	°C
W_{IV}	Working Inverse Voltage	75	V
I_O	Average Rectified Current	150	mA
I_{FM}	Non-repetitive Peak Forward Current	450	mA
I_{FSURGE}	Peak Forward Surge Current	2	A

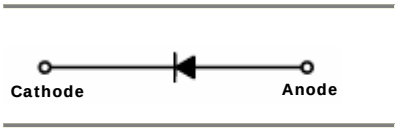
These ratings are limiting values above which the serviceability of the diode may be impaired.

DEVICE MARKING DIAGRAM
(1N4148M)

DEVICE MARKING DIAGRAM
(1N4448M / 1N914BM)



Device Code : 1NxxxxM



ELECTRICAL SYMBOL

Specification Features:

- Fast Switching Device (T_{RR} <4.0 nS)
- DO-34 Package (JEDEC DO-204)
- Through-Hole Device Type Mounting
- Hermetically Sealed Glass
- Compression Bonded Construction
- All external surfaces are corrosion resistant and leads are readily solderable
- Cathode indicated by polarity band

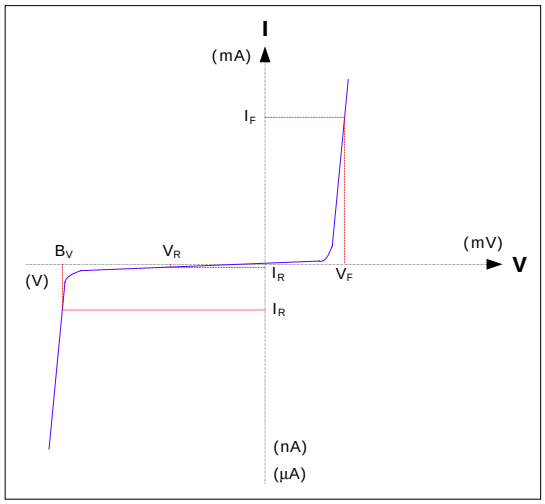
Electrical Characteristics T_A = 25°C unless otherwise noted

Symbol	Parameter		Test Condition	Limits		Unit
				Min	Max	
B_V	Breakdown Voltage		I_R=100μA	100		Volts
			I_R=5μA	75		
I_R	Reverse Leakage Current		V_R=20V		25	nA
			V_R=75V		5	μA
V_F	Forward Voltage	1N4448M, 1N914BM	I_F=5mA	0.62	0.72	
		1N4148M	I_F=10mA		1.0	Volts
		1N4448M, 1N914BM	I_F=100mA		1.0	
T_{RR}	Reverse Recovery Time		I_F=I_R=10mA			
			R_L=100Ω		4	nS
			I_{RR}=1mA			
C	Capacitance		V_R=0V, f=1M_{HZ}		4	pF

Electrical Symbol Definition

Symbol	Parameter
B_V	Breakdown Voltage @ I_R
I_R	Reverse Leakage Current @ V_R
V_R	Reverse Voltage
I_F	Forward Current
V_F	Forward Voltage @ I_F

Typical Characteristics



Axial-Lead Tape Packaging Standards

This axial-lead component's packaging requirements use in automatic testing and assembly equipment. And this standard practices for lead-tape packaging of axial-lead components meets the requirements of EIA Standard RS-296-D "Lead-taping of Components on Axial Lead Configuration for Automatic Insertion".