1N4448

FAST SWITCHING SURFACE MOUNT DIODES

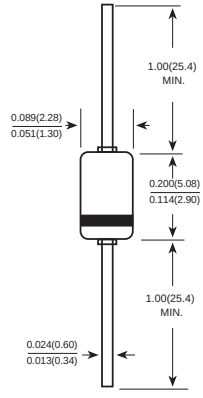
FEATURES

Fast switching Speed.
Surface Mount Package Ideally Suited For Automatic Insertion.
Silicon Epitaxal Planar Construction.
Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

Case: Molded Glass DO-35
Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight: 0.005 ounce, 0.13 grams

DO-35(GLASS)



Dimensions in inches and (millimeters)

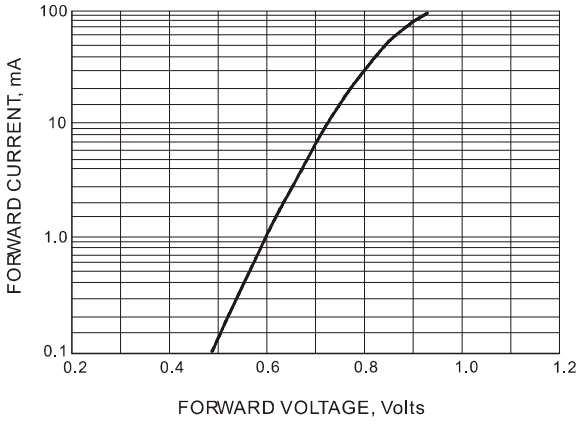
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

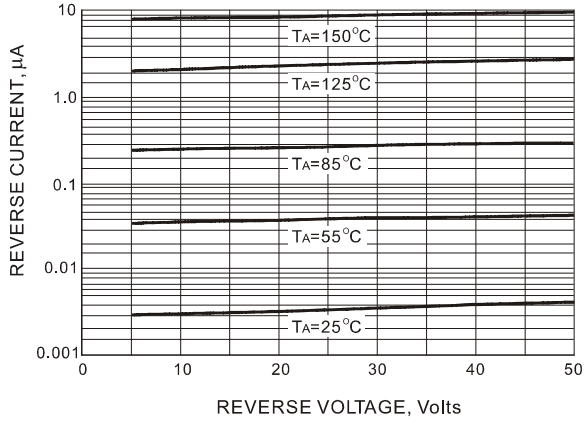
PARAMETER	SYMBOL	VALUE	UNITS
Peak Reverse Voltage	V_{RM}	100	V
Maximum DC Blocking Voltage	V_{DC}	75	V
Maximum Average Forward Current at T_A=25°C And f ≥ 50Hz	I_{AV}	150	mA
Surge Forward Current at t < 1s and T_J=25°C	I_{FSM}	500	mA
Power Dissipation at T_A= 25°C	P_{TOT}	500	mW
Maximum Forward Voltage at I_F=100mA	V_F	1	V
Maximum Leakage Current at V_R=20V at V_R=20V ,T_J= 150°C	I_R	 25 50	 nA μA
Maximum Capacitance at V_F=V_R=0	C_J	4	pF
Maximum Reverse Recovery Time From I_F =-I_R =10mA to I_{RR}=-1mA ,V_R=6V R_L=100 Ω	t_{rr}	4	ns
Typical Maximum Thermal Resistance	$R_{\Theta JA}$	350	°C / W
Junction Temperature and Storage Temperature Range	T_J,T_S	-65 to +175	°C

NOTE:
1. CJ at V_R=0, f=1MHZ
2. From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100Ω

RATINGS AND CHARACTERISTIC CURVES 1N4448

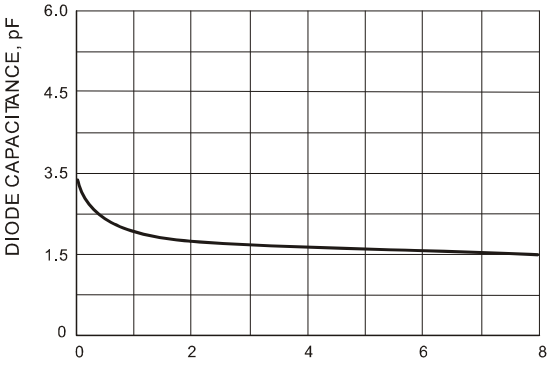
FORWARD VOLTAGE

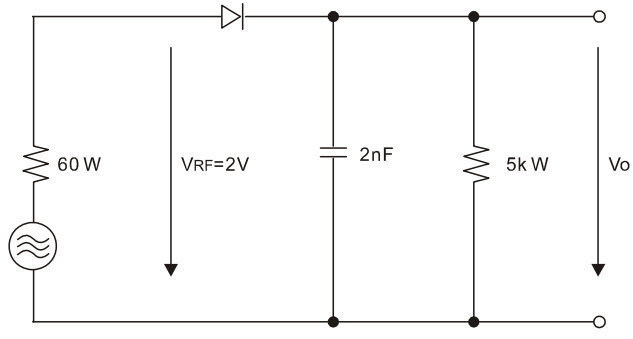




LEAKAGE CURRENT

TYPICAL CAPATICANCE





RECTIFICATION EFFCIENCY MEASUREMENT CIRCUIT