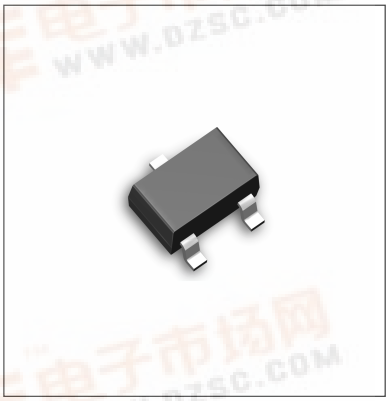
MMBD4148W, MMBD4448W

PANJIT SEMI CONDUCTOR

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 75 Volts | **POWER** 200 mWatts | **PACKAGE** SOT-323



FEATURES

- Fast switching speed.
- Surface mount package Ideally Suited for Automatic insertion
- Electrically Identical to Standard JEDEC
- High Conductance

MECHANICAL DATA

Case: SOT-323, Plastic

Terminals: Solderable per MIL-STD-202, Method 208

Approx. Weight: 0.008 gram

Marking: A2, A3

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

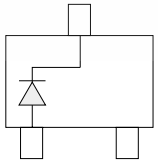
PARAMETER	SYMBOL	MMBD4148W	MMBD4448W	UNITS
Reverse Voltage	V_R	75	75	V
Peak Reverse Voltage	V_{RM}	100	100	V
Rectified Current (Average), Half Wave Rectification with Resistive Load and f >=50 Hz	I_O	150	150	mA
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	2.0	4.0	A
Power Dissipation Derate Above 25°C	P_{TOT}	200	200	mW
Maximum Forward Voltage @ I_F=5mA @ I_F=10mA	V_F	- 1.0	0.72 1.0	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T_J= 25°C	I_R	2.5	2.5	µA
Typical Junction Capacitance(Notes1)	CJ	4.0	4.0	pF
Maximum Reverse Recovery (Notes2)	T_{RR}	4.0	4.0	ns
Maximum Thermal Resistance	RθJA	357		°C / W
Storage Temperature Range	T_J	-55 TO +125		°C

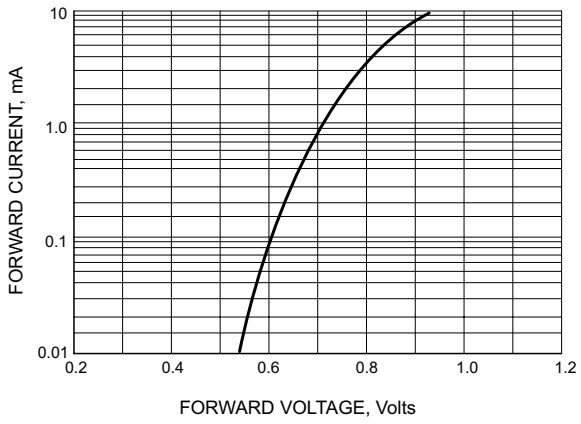
NOTE:

1. CJ at V_R=0, f=1MHZ

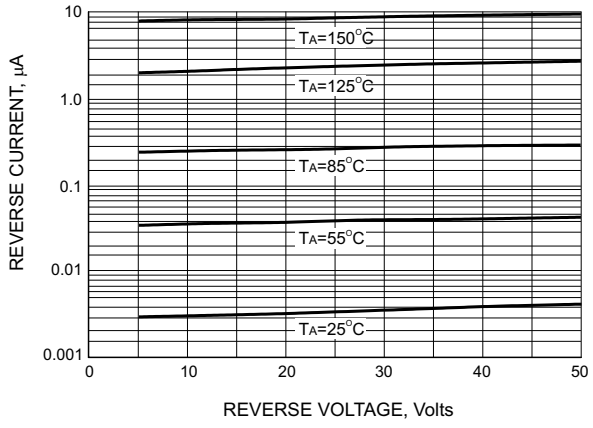
2.From I_F=10mA to I_R=1mA, V_R=6Volts, R_L=100Ω

SINGLE

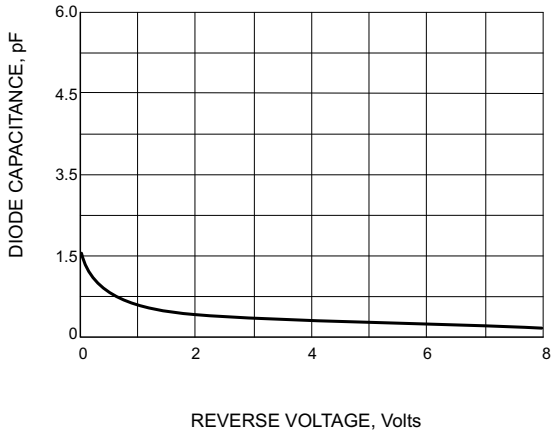




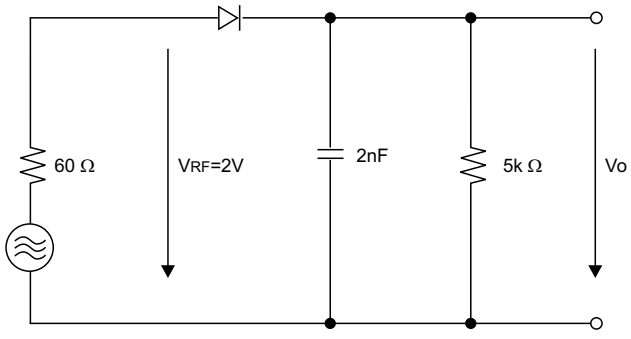
FORWARD VOLTAGE



LEAKAGE CURRENT

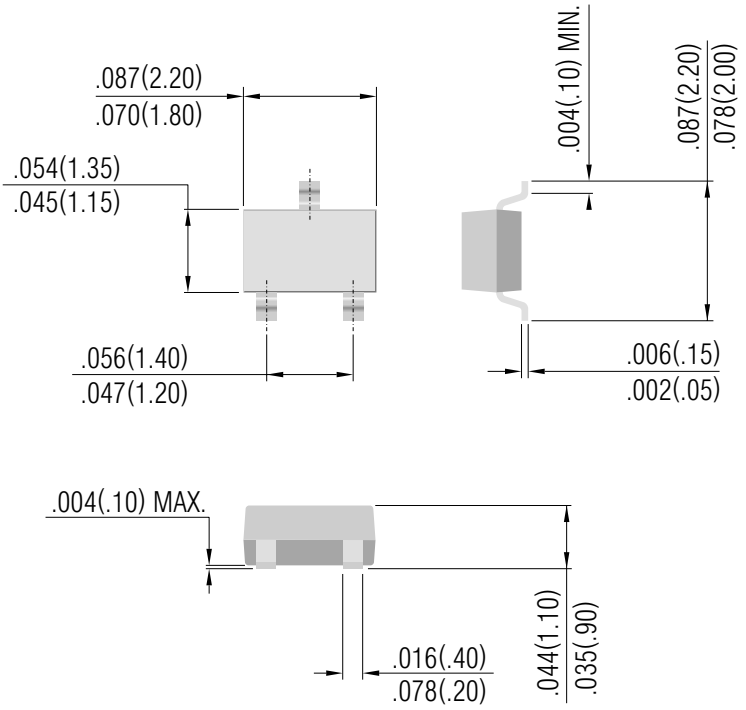


TYPICAL CAPATICANCE



RECTIFICATION EFFCIENCY MEASUREMENT CIRCUIT

SOT-323



Dimensions in inches and (millimeters)

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