



DATA SHEET

MMBD4148/MMBD4448

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100 Volts **POWER** 250mWatts

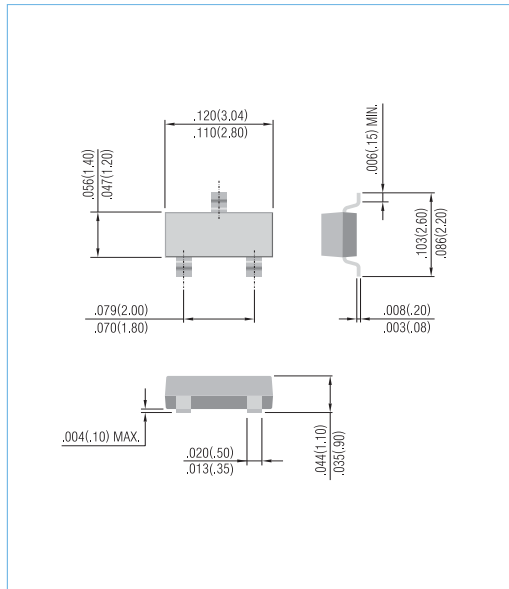
SOT-23 Unit: inch (mm)

FEATURES

- Fast switching Speed.
- Electrically Identical to Stander JEDEC
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion.
- In compliance with EU RoHS 2002/95/EC directives

MECHANICAL DATA

Case: SOT-23 plastic case.
 Terminals : Solderable per MIL-STD-750,Method 2026
 Standard packaging: 8mm tape
 Weight: approximately 0.008g

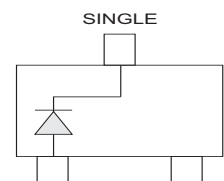


MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_J=25°C unless otherwise noted)

PARAMETER	SYMBOL	MMBD4148	MMBD4448	UNITS
Marking Code		A2	A3	
Reverse Voltage	V _R	75		V
Peak Reverse Voltage	V _{RM}	100		V
RMS Voltage	V _{RMS}	50		V
Maximum DC Blocking Voltage	V _{DC}	75		V
Maximum Average Forward Current at Ta=25°C	I _{AV}	150		mA
Peak Forward Surge Current, 1.0us	I _{FSM}	4		A
Power Dissipation Derate Above 25°C	P _{TOT}	250		mW
Maximum Forward Voltage	V _F	0.715 @ 0.001A 0.855 @ 0.01A 1.0 @ 0.05A 1.25 @ 0.15A	0.72 / 0.005A 1.0 / 0.1A	V
Maximum DC Reverse Current at Rated DC Blocking Voltage T _J = 25°C	I _R	0.025 @ 20V 2.5 @ 75V	2.5 @ 75V	uA
Junction Capacitance(Notes1)	C _J	1.5	4.0	pF
Maximum Reverse Recovery (Notes2)	T _{RR}	4.0	4.0	ns
Typical Thermal Resistance	R _{θJA}	357		°C / W
Storage Temperature Range	T _J	-55 to +150		°C

NOTE:

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



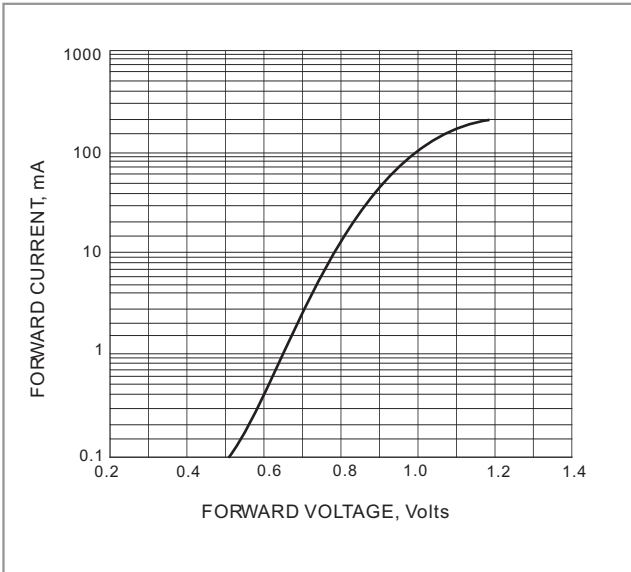


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

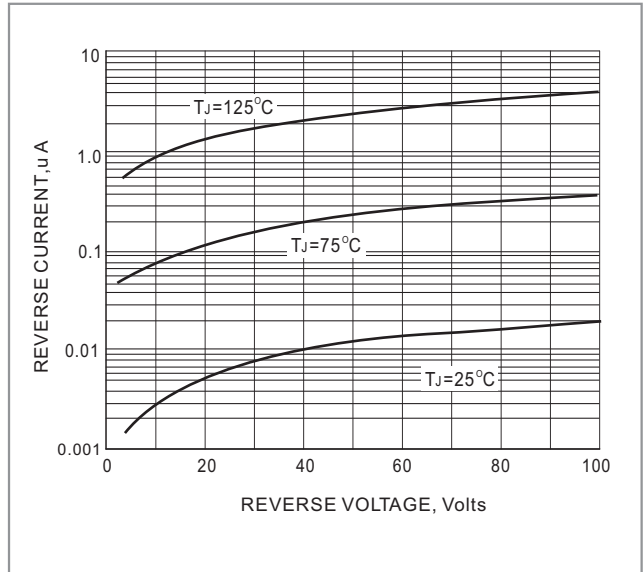


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

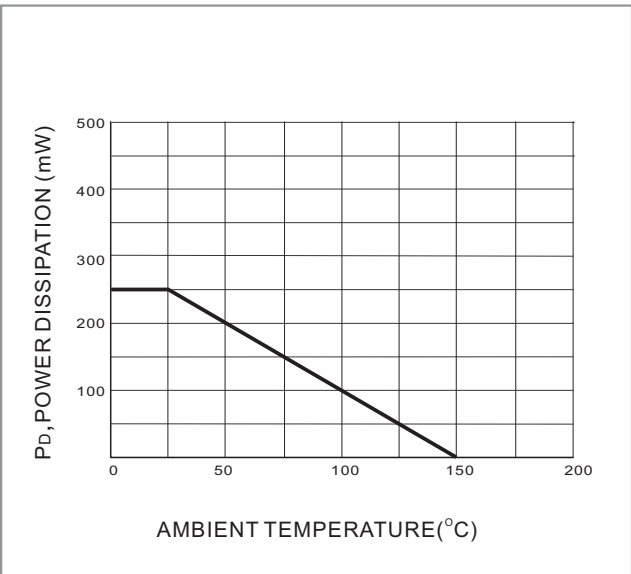
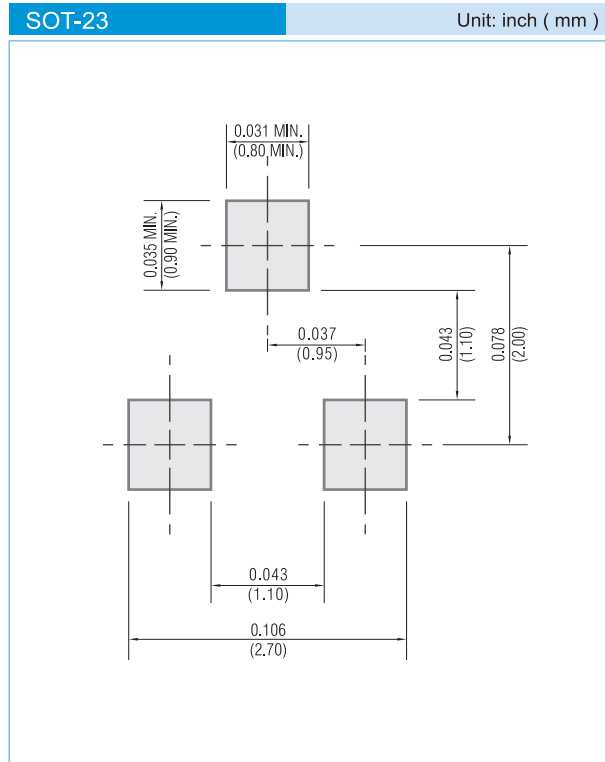


FIG. 3 POWER DERATING CURVE



MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

Copyright PanJit International, Inc 2011

The information presented in this document is believed to be accurate and reliable. The specifications and information herein are subject to change without notice. Pan Jit makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose. Pan Jit products are not authorized for use in life support devices or systems. Pan Jit does not convey any license under its patent rights or rights of others.