



DATA SHEET

MMBD4148W/MMBD4448W/BAS16W

SURFACE MOUNT SWITCHING DIODES

VOLTAGE 100 Volts **POWER** 200mWatts

SOT-323 Unit: inch (mm)

FEATURES

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

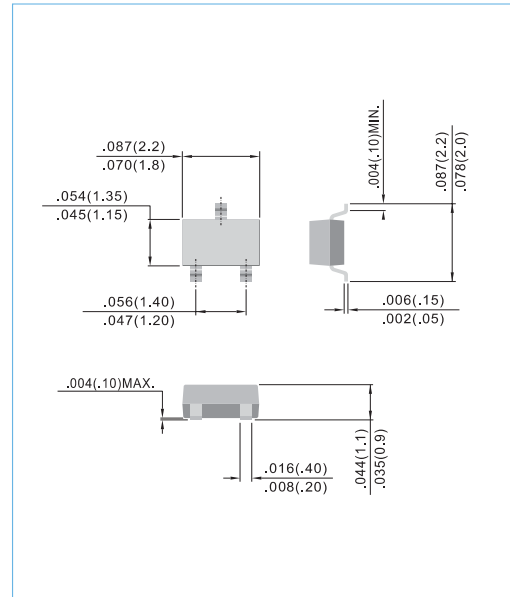
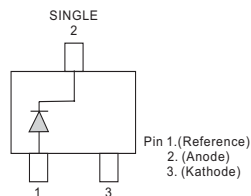
MECHANICAL DATA

Case: SOT-323 plastic case.

Terminals : Solderable per MIL-STD-750, Method 2026

Standard packaging: 8mm tape

Weight: approximately 0.0052 g



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

PARAMETER	SYMBOL	MMBD4148W	MMBD4448W	BAS16W	UNITS
Marking Code		A2	A3	A6	
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 T _A =25°C	I _{AV}	150			mA
Peak Forward Surge Current, 1.0us	I _{FSM}	4			A
Power Dissipation Derate Above 25°C	P _{TOT}	200			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	0.855 / 0.01A	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	1.0@75V	uA
Junction Capacitance(Notes1)	C _J	1.5	4.0	2.0	pF
Maximum Reverse Recovery (Notes2)	T _{RR}	4.0	4.0	6.0	ns
Typical Thermal Resistance	R _{θJA}	640			°C / W
Operation and 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

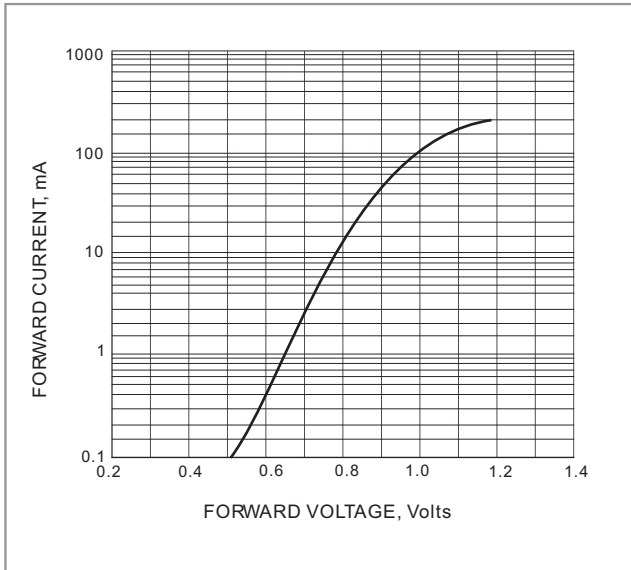


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

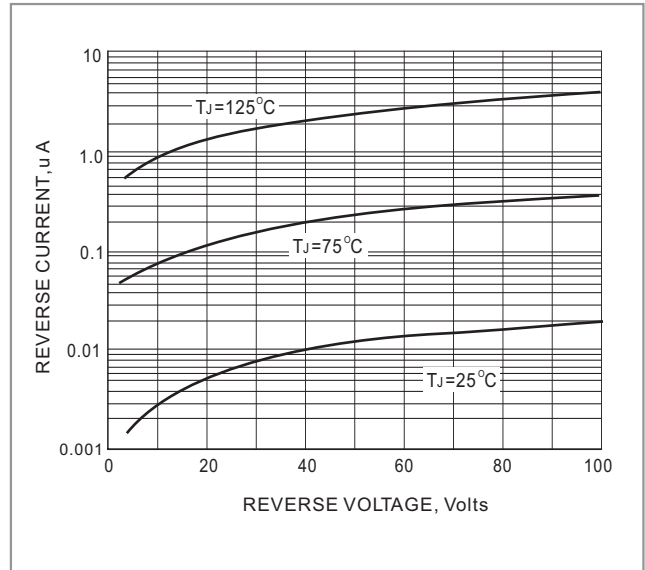


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

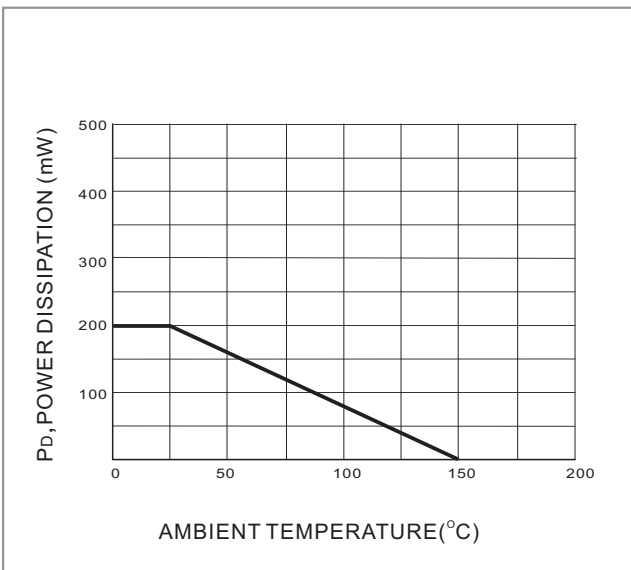
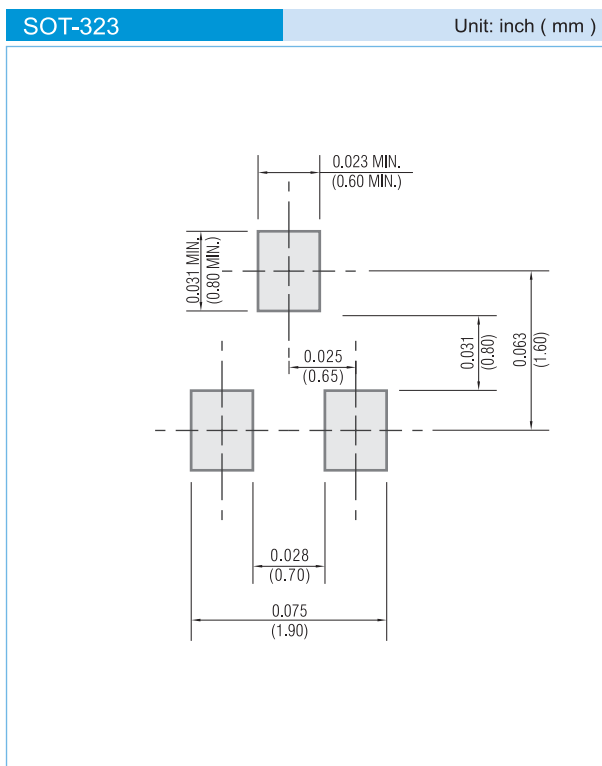


FIG. 3 POWER DERATING CURVE



MOUNTING PAD LAYOUT



ORDER INFORMATION

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

LEGAL STATEMENT

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