



**THE DATASHEET OF
MMBD4448W_R1_00001**



MMBD4148W/MMBD4448W/BAS16W

SURFACE MOUNT SWITCHING DIODES

VOLTAGE	100 Volts	POWER	200mWatts
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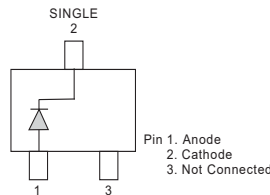
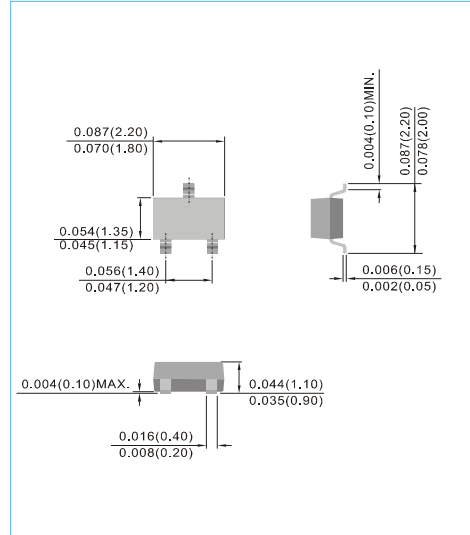
SOT-323 Unit : inch(mm)

FEATURES

- Fast switching Speed.
- Electrically Identical to Stander JEDEC
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion.
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

MECHANICAL DATA

Case : SOT-323 plastic case.
 Terminals : Solderable per MIL-STD-750, Method 2026
 Standard packaging : 8mm tape
 Approx weight : 0.005 grams



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, 1μs	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@0.05A 1.25@0.15A	0.72 / 0.005A 1 / 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@75V	μA
Junction Capacitance (Note1)	C _J	1.5	4	2	pF
Maximum Reverse Recovery (Note2)	T _{RR}	4	4	6	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

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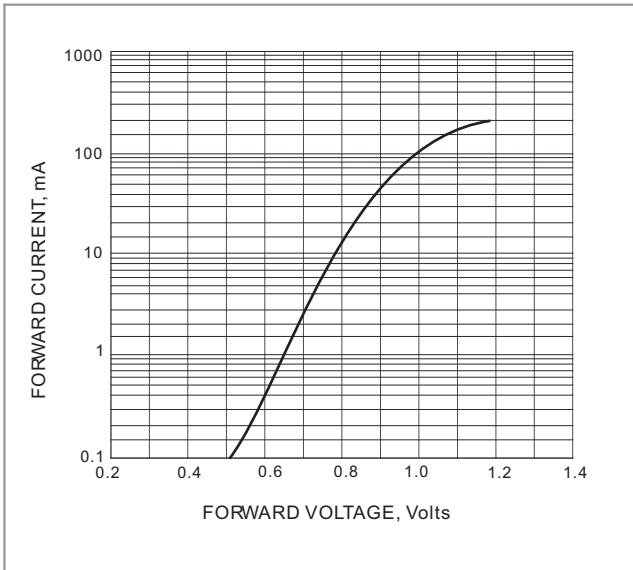


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

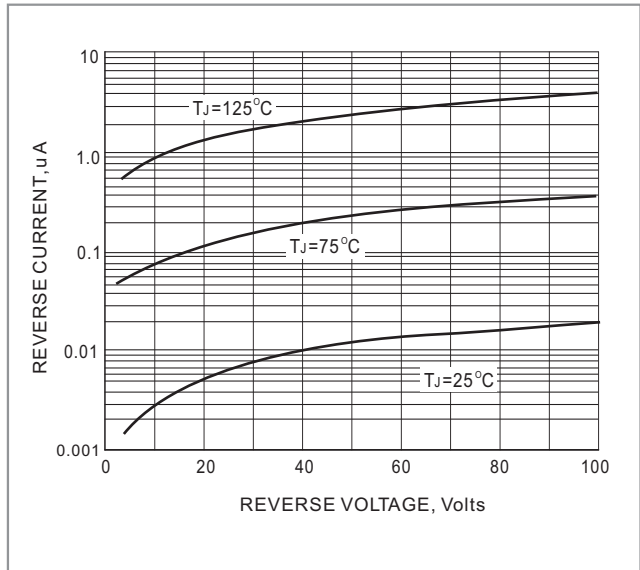


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

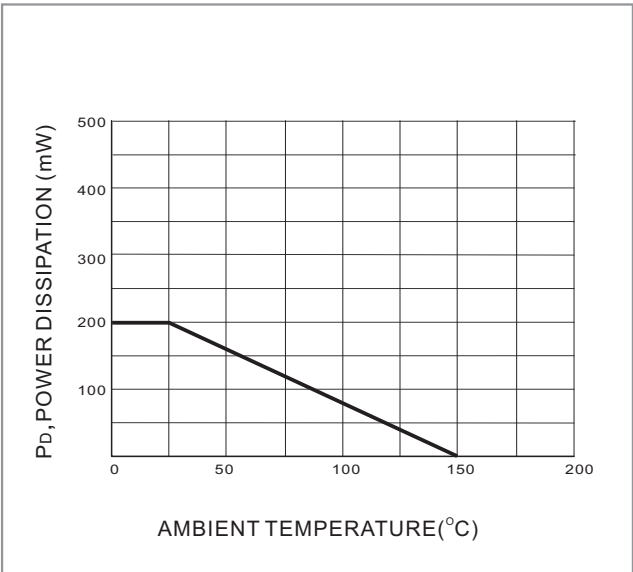


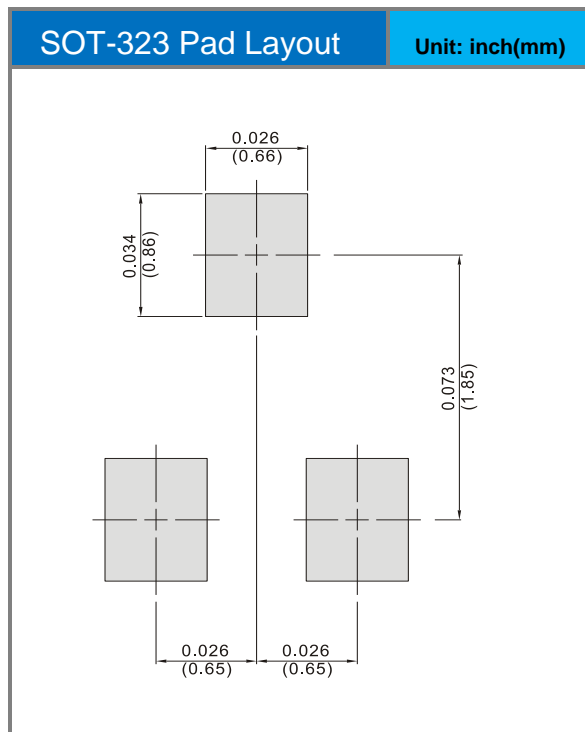
FIG. 3 POWER DERATING CURVE

MMBD4148W/MMBD4448W/BAS16W

Product and Packing Information

Part No.	Package Type	Packing Type	Marking
MMBD4148W	SOT-323	3K pcs / 7" reel	A2
MMBD4148W	SOT-323	12K pcs / 13" reel	A2
MMBD4448W	SOT-323	3K pcs / 7" reel	A3
MMBD4448W	SOT-323	12K pcs / 13" reel	A3
BAS16W	SOT-323	3K pcs / 7" reel	A6
BAS16W	SOT-323	12K pcs / 13" reel	A6

Mounting Pad Layout



MMBD4148W/MMBD4448W/BAS16W

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