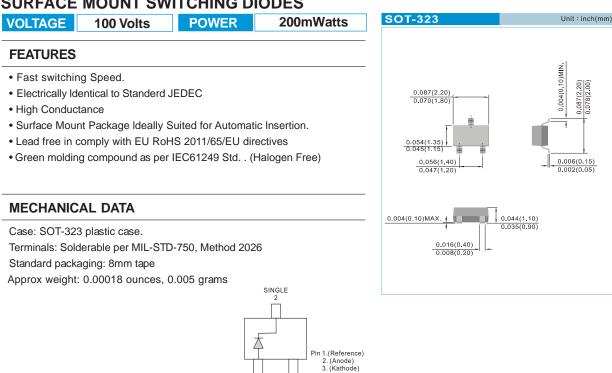


### SURFACE MOUNT SWITCHING DIODES



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

PARAMETER	SYMBOL	MMBD4148W	MMBD4448W	BAS16W	UNITS
Marking Code		A2	A3	A6	
Reverse Voltage	Vr	75			V
Peak Reverse Voltage	Vrм		V		
RMS Voltage	Vrms		V		
Maximum DC Blocking Voltage	VDC		V		
Maximum Average Forward Current at TA=25°C	l av		mA		
Peak Forward Surge Current, 1µs	I FSM		А		
Power Dissipation Derate Above 25°C	Ртот	200			
Maximum Forward Voltage	VF	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 $T_J{=}25^{\circ}\text{C}$	Ir	0.025@20V 2.5@75V	2.5@75V	1@75V	μA
Junction Capacitance (Note1)	Сл	1.5	4	2	pF
Maximum Reverse Recovery (Note2)	Trr	4	4	6	ns
Typical Thermal Resistance	Rθja		°C / W		
Operation and Storage Temperature Range	TJ	-55 to +150			

NOTE: 1. CJ at VR=0, f=1MHZ 2.From IF=10mA to IR=1mA, VR=6Volts, RL=100 $\Omega$ 



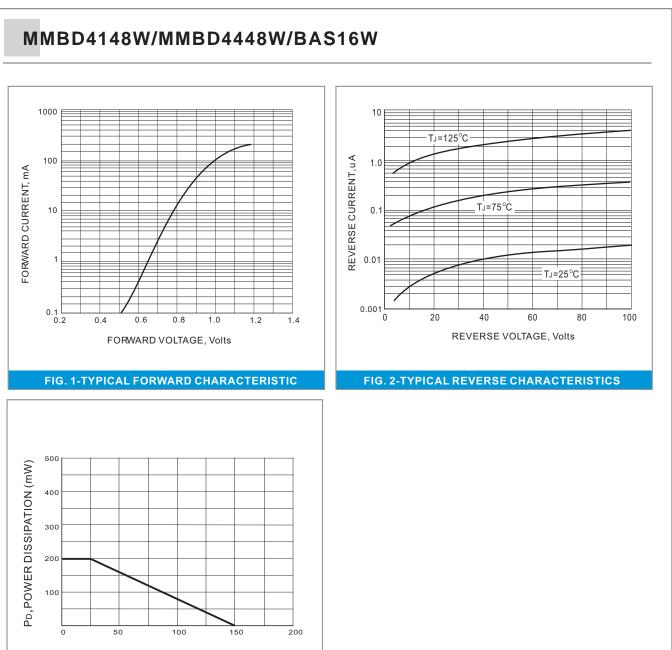


FIG. 3 POWER DERATING CURVE

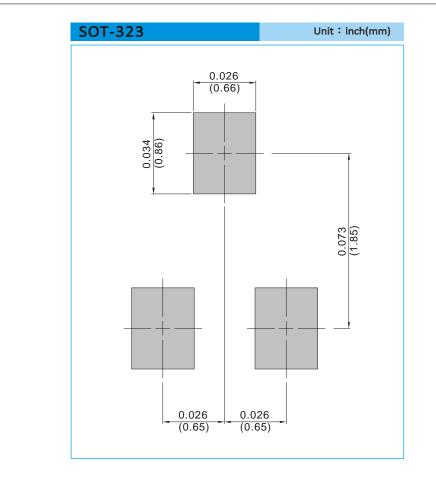
AMBIENT TEMPERATURE(°C)

10 M



## MMBD4148W/MMBD4448W/BAS16W

#### MOUNTING PAD LAYOUT



#### **ORDER INFORMATION**

• Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

10 M



## MMBD4148W/MMBD4448W/BAS16W

## Part No\_packing code\_Version

MMBD4148W\_R1\_00001 MMBD4148W\_R2\_00001

### For example :

RB500V-40\_R2\_00001

Т

Part No.

Serial number
Version code means HF

- Packing size code means 13"
- Packing type means T/R

Packing Code XX					Version Code XXXXX			
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code		
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number		
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number		
Bulk Packing (B/P)	В	13"	2					
Tube Packing (T/P)	т	26mm	X					
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y					
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					



# MMBD4148W/MMBD4448W/BAS16W

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