



# MMBD330WS

## SURFACE MOUNT HIGH FREQUENCY SCHOTTKY DIODE

**VOLTAGE** 30 Volt **POWER** 200mWatt

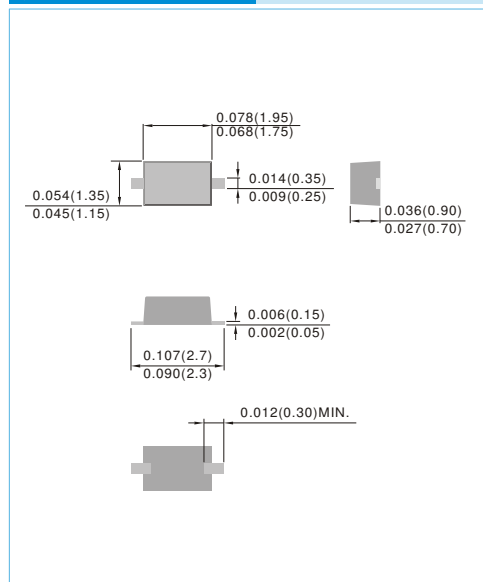
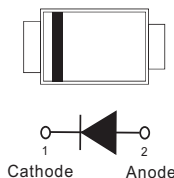
**SOD-323** Unit : inch(mm)

### FEATURES

- Low Capacitance : 1.5 pF (Max) at  $V_R=15V$
- Very Low  $V_F$  : 0.36V (Typ) at  $I_F = 1mA$
- Extremely Fast Switching Speed
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

- Case: SOD-323 plastic case.
- Terminals : Solderable per MIL-STD-750,Method 2026
- Weight: 0.00014 ounces, 0.0041 grams



### MAXIMUM RATINGS AND THERMAL CHARACTERISTICS

Parameter	Symbol	VALUE	Units
Marking Code	-	330	-
Reverse Voltage	$V_R$	30	V
Peak Reverse Voltage	$V_{RRM}$	30	V
Maximum Forward Current	$I_F$	0.2	A
Power Dissipation (1)	$P_{tot}$	200	mW
Thermal Resistance , Junction to Ambient (1)	$R_{\theta JA}$	635	°C/W
Junction Temperature Range	$T_J$	-55 to +125	°C
Storage Temperature Range	$T_{STG}$	-55 to +150	°C

**NOTE:**

1. FR-5 Board = 1.0X0.75X0.062 in.

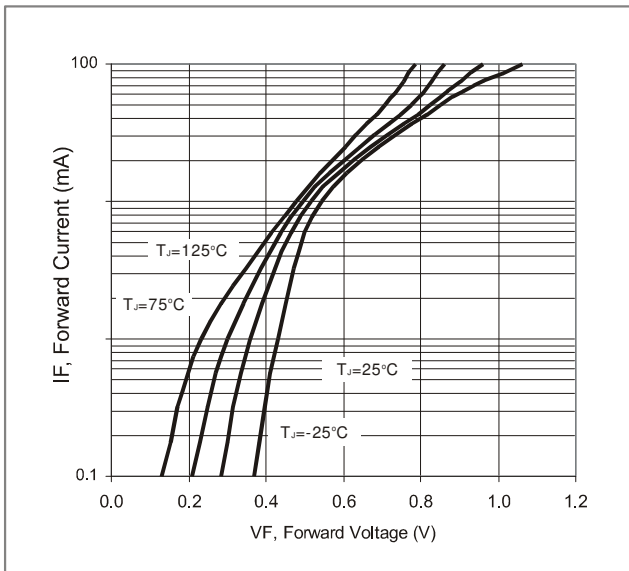


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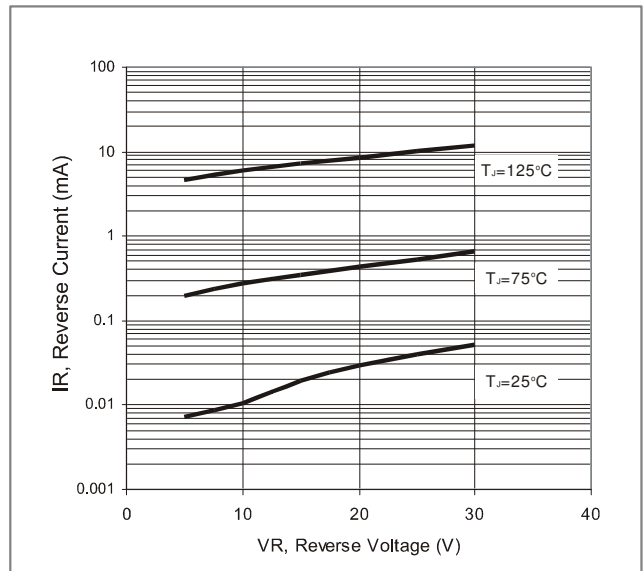
## ELECTRICAL CHARACTERISTICS ( $T_J=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Units
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=10\text{ A}$	30	-	-	V
Reverse Leakage Current	$I_R$	$V_R=25\text{V}$	-	-	0.2	A
Forward Voltage	$V_F$	$I_F=1.0\text{mA}$	-	-	0.45	V
Forward Voltage	$V_F$	$I_F=10\text{mA}$	-	-	0.6	V
Total Capacitance	$C_J$	$V_R=15\text{V}, f=1.0\text{MHz}$	-	-	1.5	pF

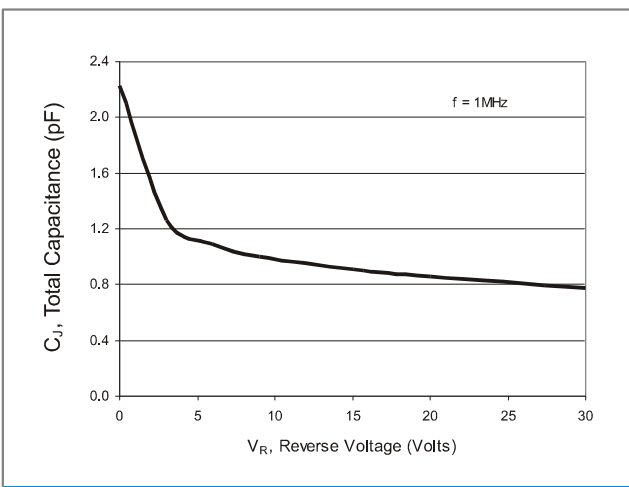
## ELECTRICAL CHARACTERISTICS CURVES



**FIG. 1-TYPICAL FORWARD CHARACTERISTIC**



**FIG. 2-TYPICAL REVERSE CHARACTERISTICS**



**FIG. 3 TYPICAL TOTAL CAPACITANCE**

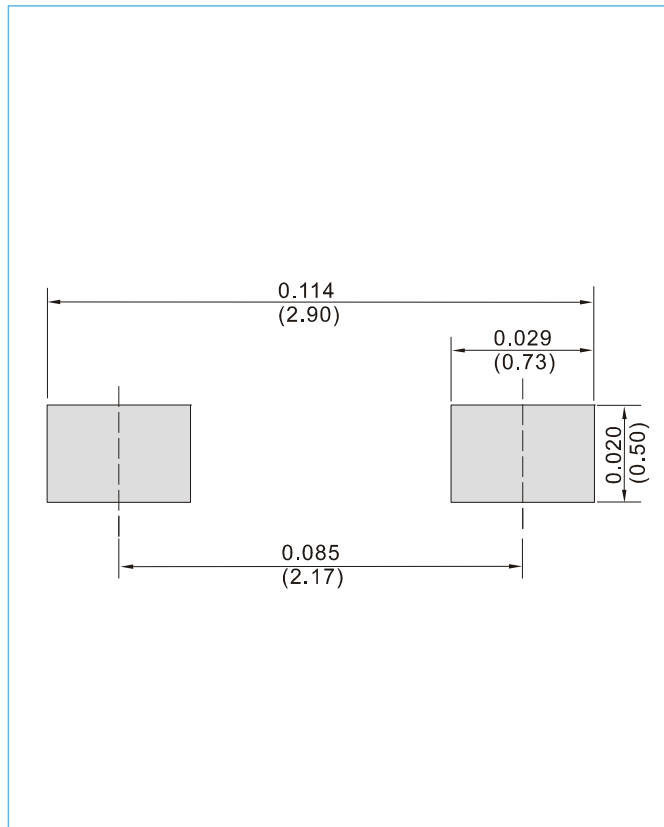


## MMBD330WS

### MOUNTING PAD LAYOUT

SOD-323

Unit : inch(mm)



### ORDER INFORMATION

- Packing information
  - T/R - 12K per 13" plastic Reel
  - T/R - 5K per 7" plastic Reel



## MMBD330WS

### Part No\_packing code\_Version

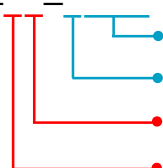
MMBD330WS\_R1\_00001

MMBD330WS\_R2\_00001

For example :

**RB500V-40\_R2\_00001**

Part No.



Serial number

Version code means HF

Packing size code means 13"

Packing type means T/R

Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
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)	<b>A</b>	N/A	<b>0</b>	<b>HF</b>	<b>0</b>	serial number
Tape and Reel (T/R)	<b>R</b>	7"	<b>1</b>	<b>RoHS</b>	<b>1</b>	serial number
Bulk Packing (B/P)	<b>B</b>	13"	<b>2</b>			
Tube Packing (T/P)	<b>T</b>	26mm	<b>X</b>			
Tape and Reel (Right Oriented) (TRR)	<b>S</b>	52mm	<b>Y</b>			
Tape and Reel (Left Oriented) (TRL)	<b>L</b>	PANASERT T/B CATHODE UP (PBCU)	<b>U</b>			
FORMING	<b>F</b>	PANASERT T/B CATHODE DOWN (PBCD)	<b>D</b>			



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