



# MMBD330W

## SURFACE MOUNT HIGH FREQUENCY SCHOTTKY DIODE

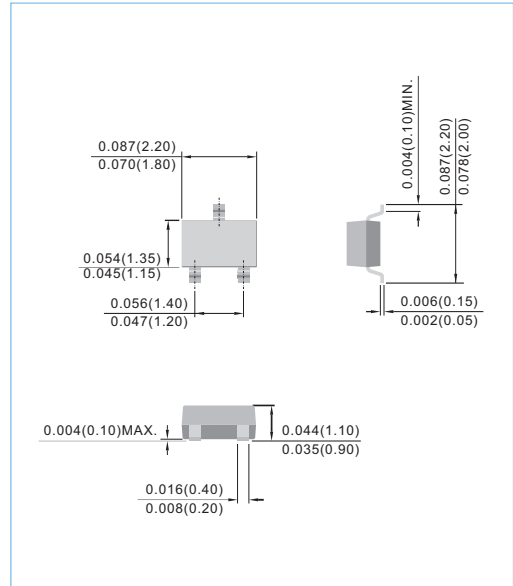
**VOLTAGE** 30 Volts    **POWER** 200mWatts    **SOT-323**    Unit: inch (mm)

### 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 comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

- Case: SOT-323 plastic case.
- Terminals : Solderable per MIL-STD-750, Method 2026
- Weight: approximately 0.005 gram

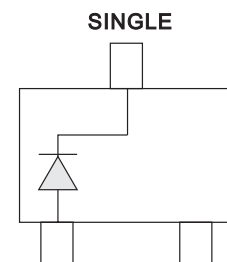


## MAXIMUM RATINGS AND THERMAL CHARACTERISTICS

Parameter	Symbol	MMBD330W	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	$^{\circ}C/W$
Junction Temperature Range	$T_J$	-55 to +125	$^{\circ}C$
Storage Temperature Range	$T_{STG}$	-55 to +150	$^{\circ}C$

**NOTE:**

1. FR-4 Board = 70 X 60 X 1mm.



**Fig.14**

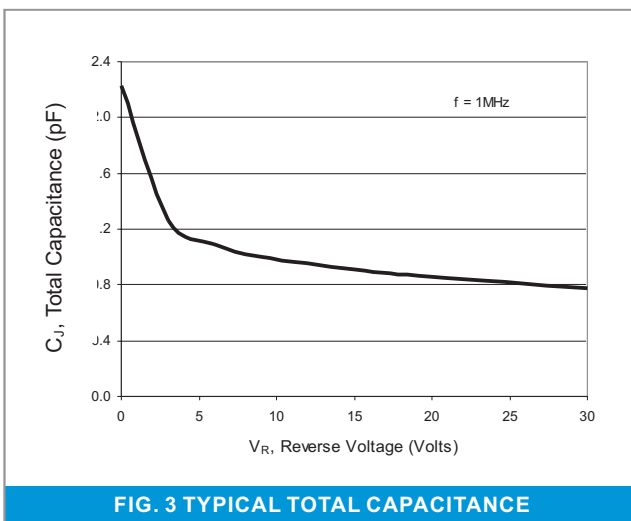
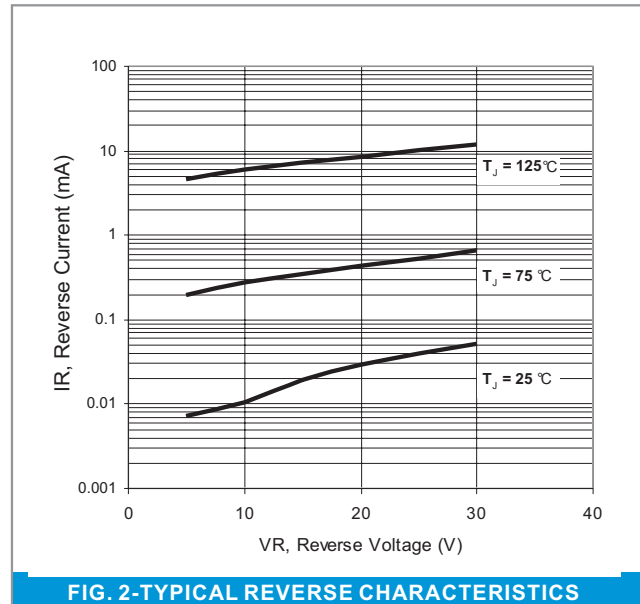
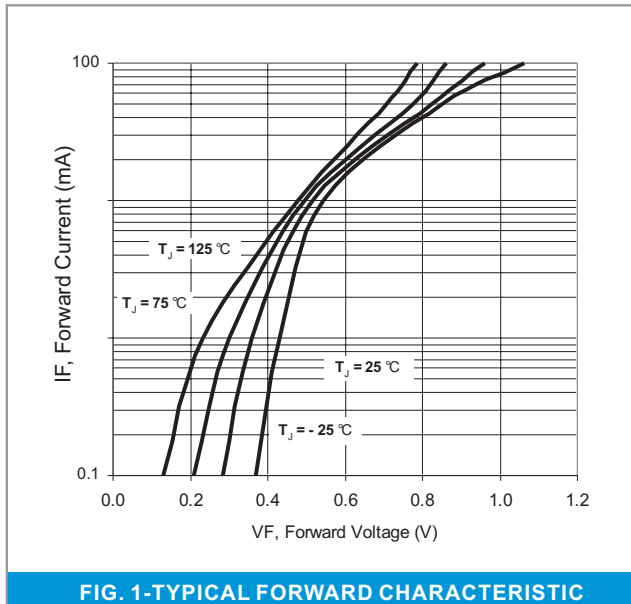


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## ELECTRICAL CHARACTERISTICS ( $T_J=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Units
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=10\mu\text{A}$	30	-	-	V
Reverse Leakage Current	$I_R$	$V_R=25\text{V}$	-	-	0.2	$\mu\text{A}$
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

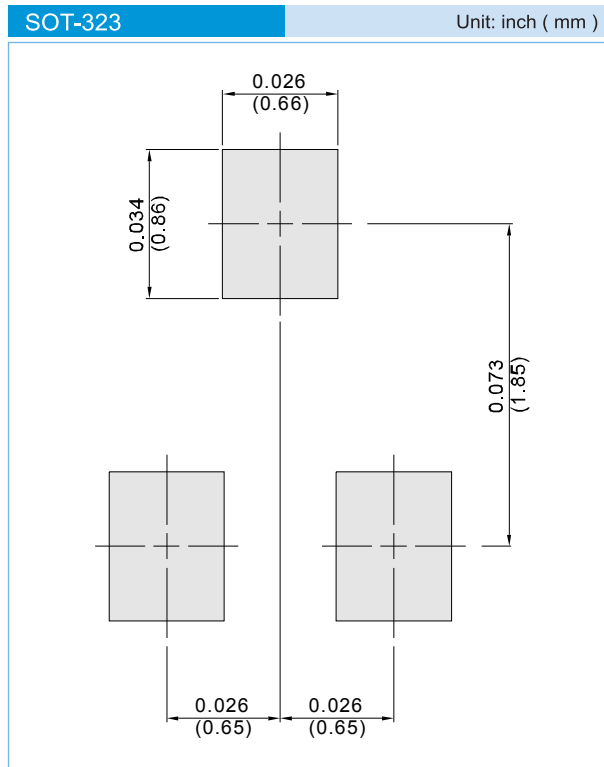
## ELECTRICAL CHARACTERISTICS CURVES





# MMBD330W

## MOUNTING PAD LAYOUT



## ORDER INFORMATION

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



## MMBD330W

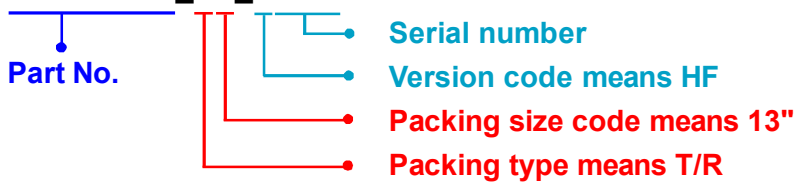
### Part No\_packing code\_Version

MMBD330W\_R1\_00001

MMBD330W\_R2\_00001

For example :

**RB500V-40\_R2\_00001**



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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