



SURFACE MOUNT HIGH FREQUENCY SCHOTTKY DIODE

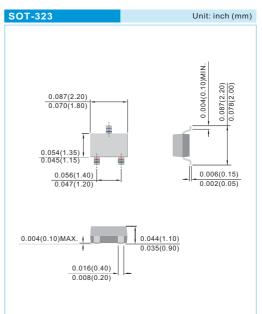
 VOLTAGE
 30 Volts
 POWER
 200mWatts
 SOT-323

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	l _F	0.2	А	
Power Dissipation (1)	P _{tot}	200	mW	
Thermal Resistance , Junction to Ambient (1)	R _{eJ A}	635	°C/W	
Junction Temperature Range	T_J	-55 to +125	°C	
Storage Temperature Range	T _{STG}	-55 to +150	°C	

NOTE:

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

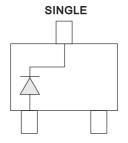


Fig.14

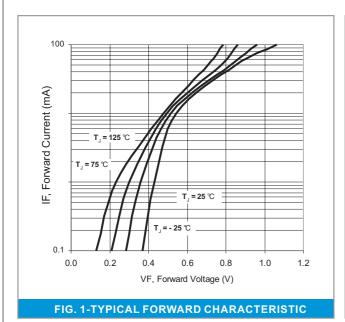


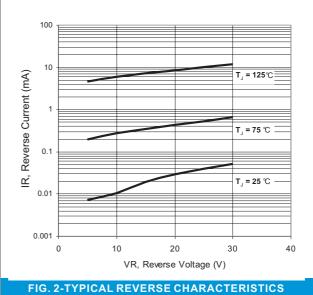


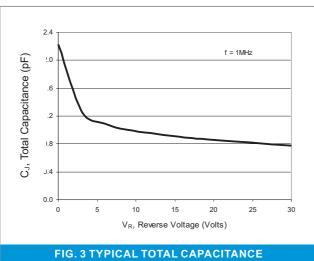
ELECTRICAL CHARACTERISTICS (T₁=25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V _(BR)	I _R =10∝A	30	-	-	V
Reverse Leakage Current	I _R	V _R =25V	-	-	0.2	∞A
Forword Voltage	V _F	I _F =1.0mA	-	-	0.45	V
Forword Voltage	V _F	I _F =10mA	-	-	0.6	V
Total Capacitance	C	V _R =15V, f=1.0MHz	-	-	1.5	pF

ELECTRICAL CHARACTERISTICS CURVES



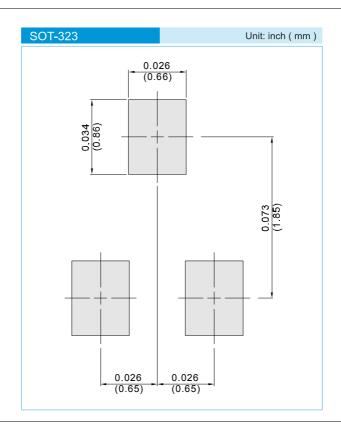








MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





Part No_packing code_Version

MMBD330W_R1_00001 MMBD330W_R2_00001

For example:



Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	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			





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