

MMBD101W/MMBD352W/MMBD354W/MMBD355W

SURFACE MOUNT HIGH FREQUENCY SCHOTTKY DIODE

VOLTAGE 7.0 Volts **POWER** 200 mW

SOT-323 Unit : inch(mm)

FEATURES

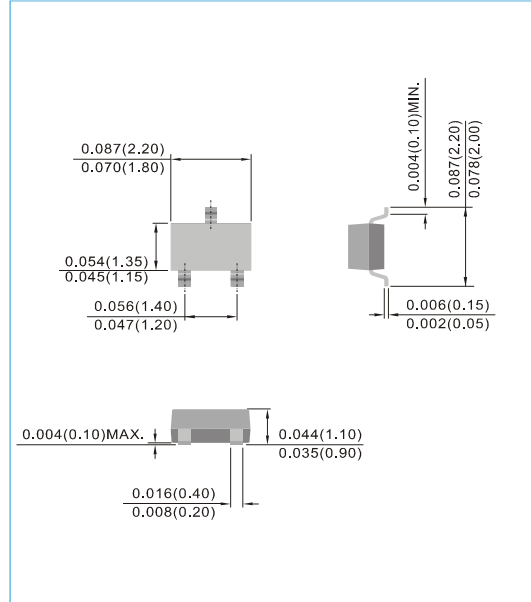
- Low Capacitance, Minimizing Insertion Losses in VHF Applications
- Low V_F : 0.5V (Typ) at $I_F=10mA$
- Extremely Fast Switching Speed
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

Case : SOT-323, Plastic

Terminals : Solderable per MIL-STD-750, Method 2026

Approx weight : 0.0002 ounces, 0.005 grams



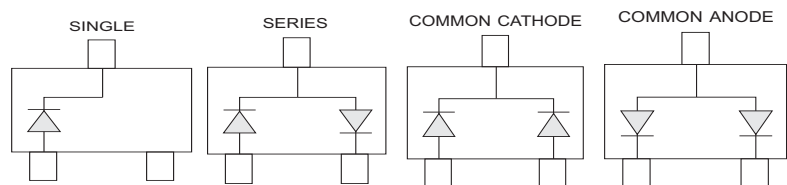
MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	MMBD101W	MMBD352W	MMBD354W	MMBD355W	UNITS
Marking Code		101	352	354	355	
Reverse Voltage	V_R	7				V
Forward Power Dissipation	P_F	200				mW
Junction Temperature Range	T_J	-55 to 125				$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to 150				$^\circ\text{C}$
Circuit Figure		SINGLE	SERIES	COMMON CATHODE	COMMON ANODE	

THERMAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS
Thermal Resistance , Junction to Ambient ⁽¹⁾	$R_{\theta JA}$	500	$^\circ\text{C/W}$

Note 1. FR-5 Board = 1.0 x 0.75 x 0.062 in

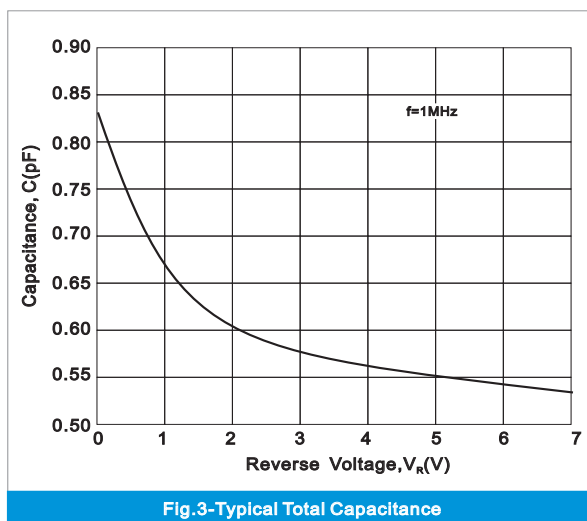
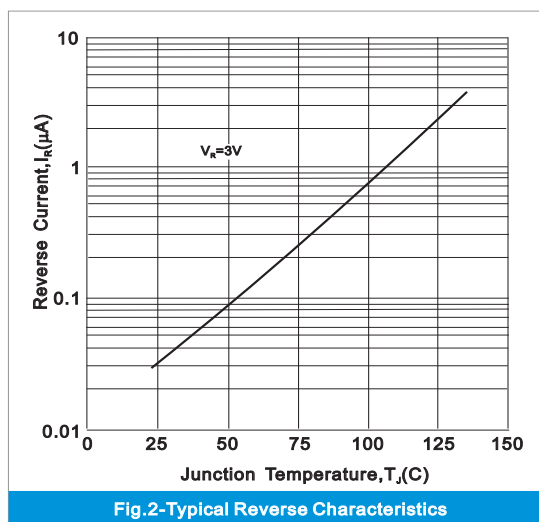
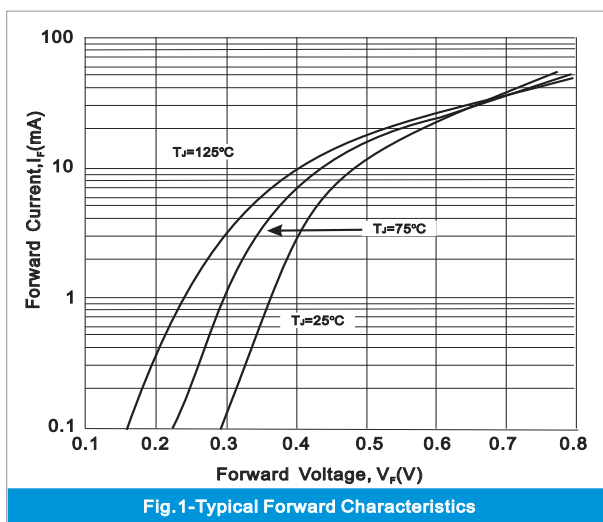


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ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise noted)

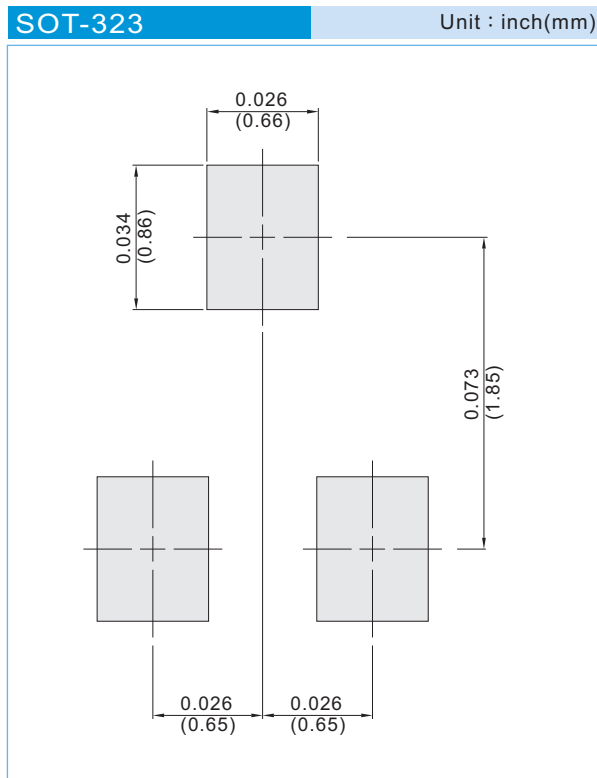
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=10\mu\text{A}$	7.0	10	-	V
Reverse Leakage Current	I_R	$V_R=3.0\text{V}$	-	-	0.25	μA
Forward Voltage	V_F	$I_F=10\text{mA}$	-	0.5	0.6	V
Total Capacitance	C_T	$f=1.0\text{MHz}$; $V_R=0\text{V}$	-	0.88	1.0	pF

ELECTRICAL CHARACTERISTICS CURVE



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MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

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Part No_packing code_Version

MMBD101W_R1_00001

MMBD101W_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 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)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	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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