

MMBD101/MMBD352/MMBD354/MMBD355

SURFACE MOUNT HIGH FREQUENCY SCHOTTKY DIODE

VOLTAGE 7.0 Volts **POWER** 250 mW

SOT-23

Unit : inch(mm)

FEATURES

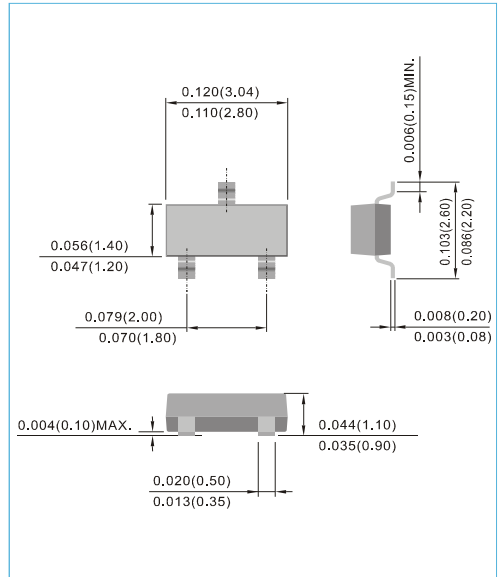
- Low Capacitance, Minimizing Insertion Losses in VHF Applications
- Low V_F : 0.5V (Typ) at $I_F=10\text{mA}$
- Extremely Fast Switching Speed
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

Case : SOT-23, Plastic

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

Approx weight : 0.0003 ounces, 0.0084 grams



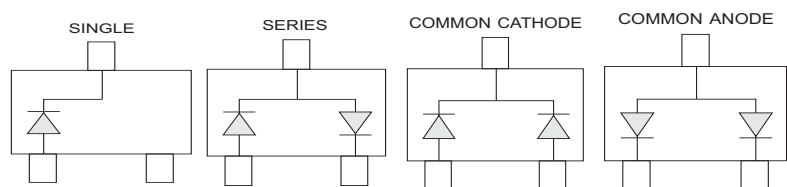
MAXIMUM RATINGS

PARAMETER	SYMBOL	MMBD101	MMBD352	MMBD354	MMBD355	UNITS
Marking Code	-	101	352	354	355	-
Reverse Voltage	V_R	7				V
Forward Power Dissipation	P_F	250				mW
Junction Temperature Range	T_J	-55 to +125				°C
Storage Temperature Range	T_{STG}	-55 to +150				°C
Circuit Figure	-	SINGLE	SERIES	COMMON CATHODE	COMMON ANODE	-

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	VALUE	UNITS
Thermal Resistance , Junction to Ambient	R_{JA}	400	°C/W

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

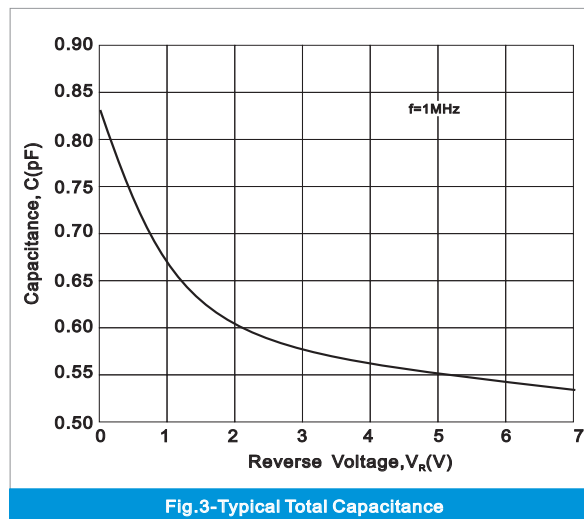
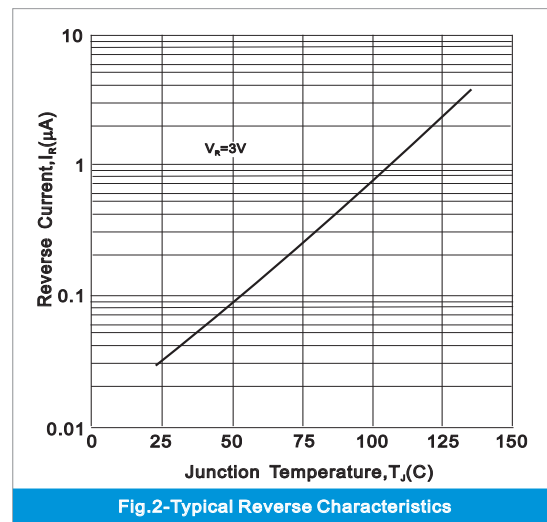
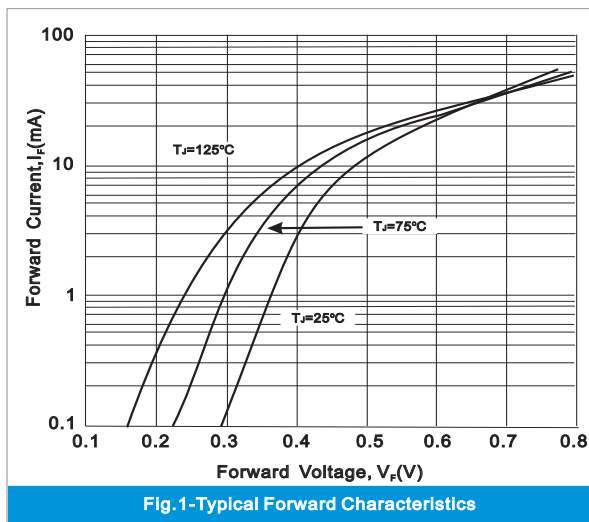


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ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$, unless otherwise noted)

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_J	$f=1.0\text{MHz}$, $V_R=0\text{V}$	-	0.88	1.0	pF

ELECTRICAL CHARACTERISTICS CURVE

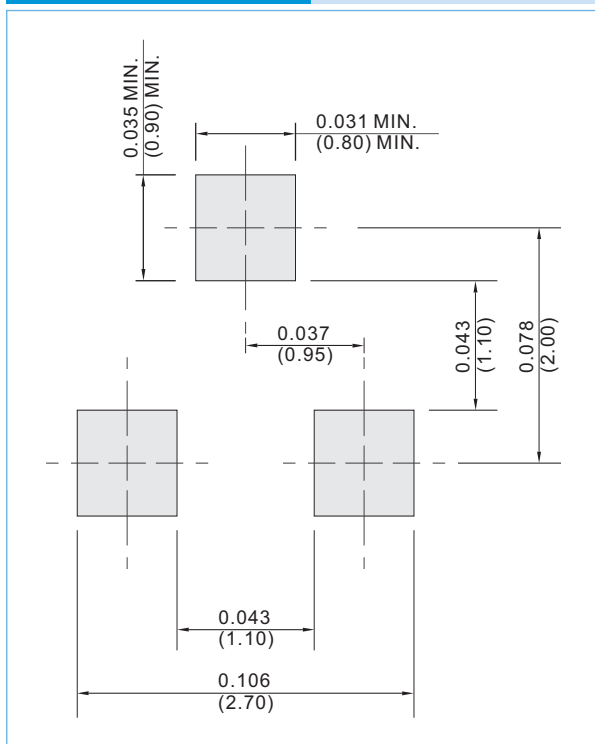


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MOUNTING PAD LAYOUT

SOT-23

Unit : inch(mm)



ORDER INFORMATION

- Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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For example :

RB500V-40_R2_00001



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
T/B	A	N/A	0	HF	0	serial number
T/R	R	7"	1	RoHS	1	serial number
B/P	B	13"	2			
T/P	T	26mm	X			
TRR	S	52mm	Y			
TRL	L	PBCU	U			
FORMING	F	PBCD	D			

Part No_packing code_Version

MMBD101_R1_00001

MMBD101_R2_00001