

MMBD101/MMBD352/MMBD353/MMBD354/MMBD355

SURFACE MOUNT HIGH FREQUENCY SCHOTTKY DIODE

VOLTAGE	7.0 Volts	POWER	250 mW	SOT- 23	Unit: inch (mm)
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FEATURES

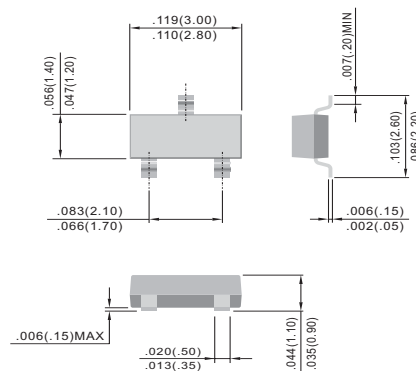
- Low Capacitance,Minimizing Insertion Losses in VHF Applications
- Low V_F : 0.5V (Typ) at $I_F=10mA$
- Extremely Fast Switching Speed
- Pb free product are available : 99% Sn above can meet RoHS environment substance directive request

MECHANICAL DATA

Case : SOT-23, Plastic

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

Approx weight : 0.008 gram



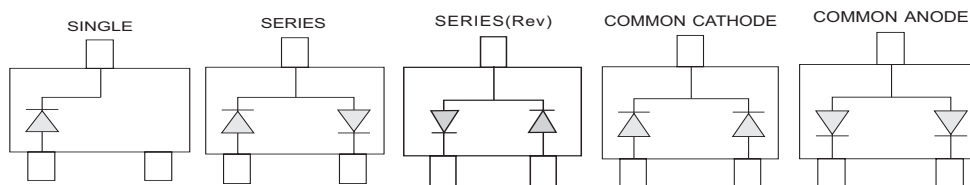
MAXIMUM RATINGS

PARAMETER	SYMBOL	MMBD101	MMBD352	MMBD353	MMBD354	MMBD355	UNITS
Marking Code		101	352	353	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	SERIES (Rev)	COMMON CATHODE	COMMON ANODE	

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	VALUE	UNITS
Thermal Resistance , Junction to Ambient ⁽¹⁾	$R_{\theta JA}$	400	°C /W

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

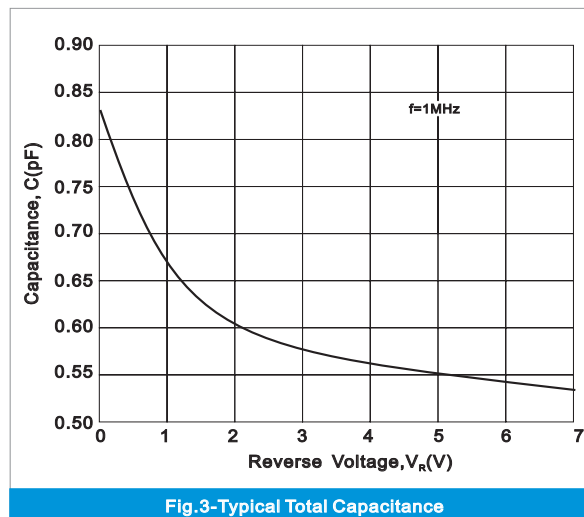
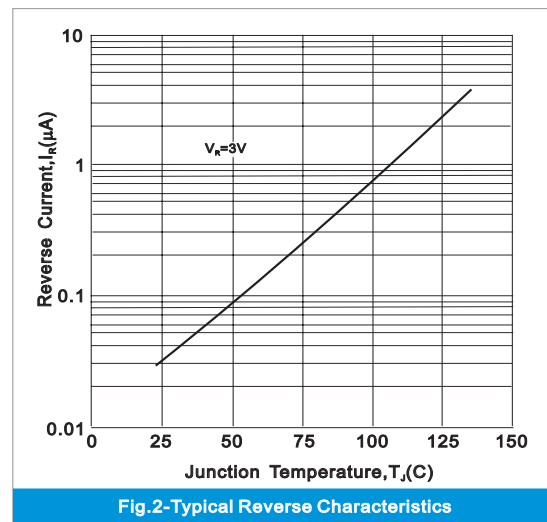
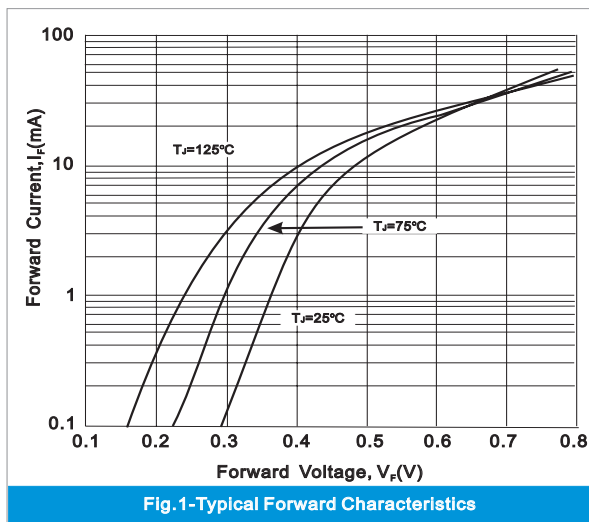


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ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$, unless otherwise noted)

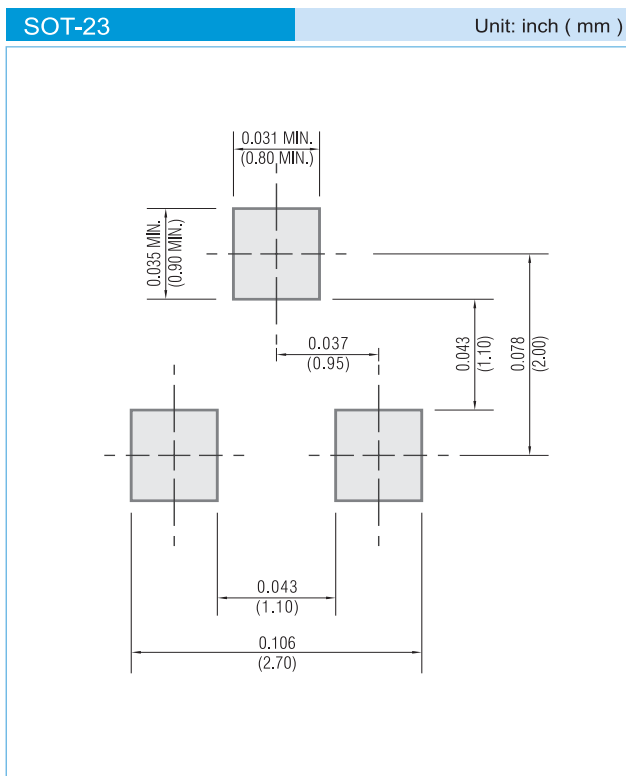
PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R = 10\mu\text{A}$	7.0	10	-	V
Reverse Leakage Current	I_R	$V_R = 3.0\text{V}$	-	-	0.25	μA
Forward Voltage	V_F	$I_F = 10\text{mA}$	-	0.5	0.6	V
Total Capacitance	C_T	$f = 1.0\text{MHz}$; $V_R = 0\text{V}$	-	0.88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

LEGAL STATEMENT

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