

ABSOLUTE RATINGS

PARAMETER	SYMBOL	VALUE	UNITS
Maximum Reverse Voltage	Vr	80	V
Peak Reverse Voltage	Vrrm	80	V
Continuous Forward Current	١F	0.2	А
Non-repetitive Peak Forward Surge Current at t=1 μ s	IFSM	4	А

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	VALUE	UNITS
Power Dissipation (1)	Ртот	200	mW
Thermal Resistance, Junction to Ambient ⁽¹⁾	Røja	625	°C/W
Junction Temperature	TJ	-55 to 150	°C
Storage Temperature	Тѕтс	-55 to 150	°C

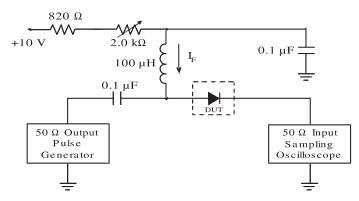
NOTE:

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



ELECTRICAL CHARACTERISTICS (T_=25°C , unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNITS
Reverse Breakdown Voltage	Vbr	I R=100μA	80	-	-	V
Reverse Current	Ir	Vr=50V	-	-	100	nA
Forward Voltage	VF	I F=1mA I F=100mA	0.55 0.85	-	0.7 1.1	v
Total Capacitance	Ст	VR=0V, f =1MHz	-	-	2.5	pF
Reverse Recovery Time (Figure 1)	trr	I	-	-	4	ns



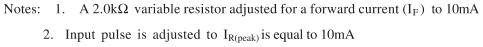
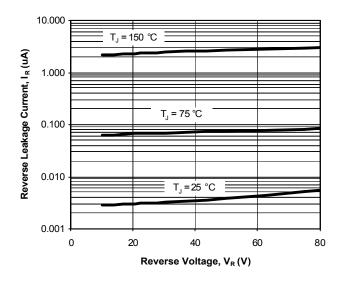


Figure 1. REVERSE RECOVERY TIME EQUIVALENT TEST CIRCUIT





ELECTRICAL CHARACTERISTIC CURVES

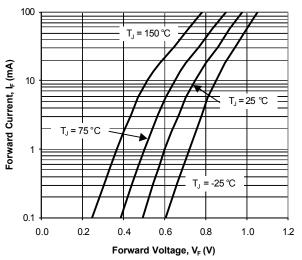


Fig. 2. Reverse Current vs. Reverse Voltage

Fig. 3. Forward Current vs. Forward Voltage

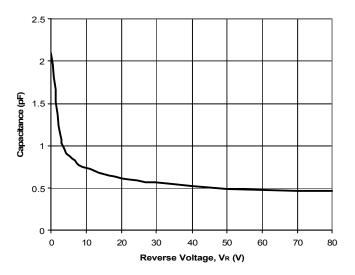
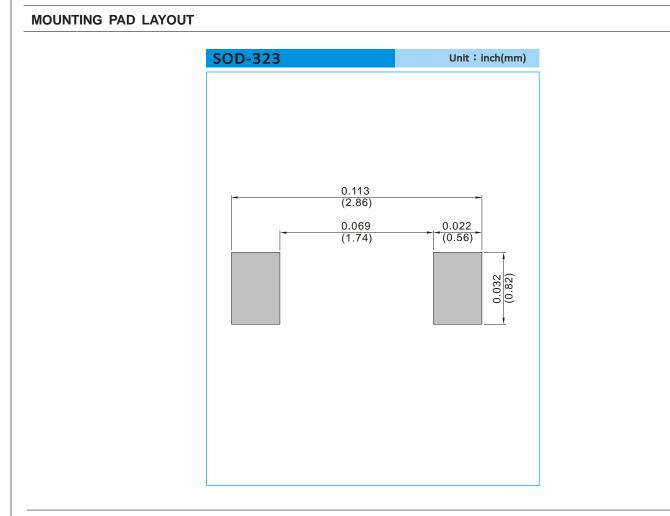


Fig. 4. Capacitance vs. Reverse Voltage





ORDER INFORMATION

Packing information

T/R - 12K per 13" plastic Reel T/R - 5K per 7" plastic Reel





Part No_packing code_Version

MMBD6050WS_R1_00001 MMBD6050WS_R2_00001

For example :

RB500V-40_R2_00001

L

Serial number _

Part No.

- 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)	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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