

#### **ABSOLUTE RATINGS**

PARAMETER	SYMBOL	VALUE	UNITS
Maximum Reverse Voltage	VR	80	V
Peak Reverse Voltage	Vrrm	80	V
Continuous Forward Current	١F	0.2	A
Non-repetitive Peak Forward Surge Current at t=1 $\mu$ s	I FSM	4	A

#### THERMAL CHARACTERISTICS

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

NOTE:

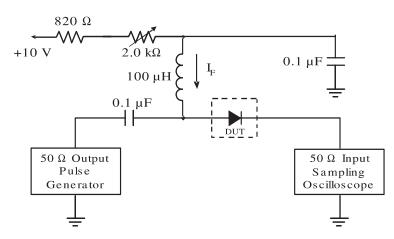
1. FR-5 Board=1.0 x 0.75 x 0.062 in.

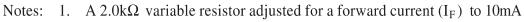


# MMBD6100W

ELECTRICAL CHARACTERISTICS (T<sub>1</sub>=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	V <sub>R</sub> =50V	_	-	100	nA
Forward Voltage	VF	IF=1mA IF=100mA	0.55 0.85	-	0.7 1.1	v
Total Capacitance	Ст	V <sub>R</sub> =0V, f=1MHz	-	-	2.5	pF
Reverse Recovery Time (Figure 1)	trr	I F=I R=10mA, RL=100 Ω	-	-	4	ns



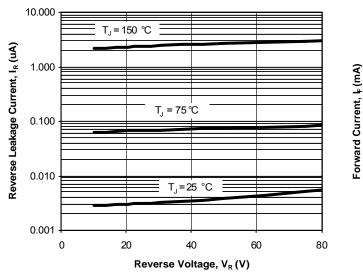


2. Input pulse is adjusted to  $I_{R(peak)}$  is equal to 10mA

Figure 1. REVERSE RECOVERY TIME EQUIVALENT TEST CIRCUIT



### ELECTRICAL CHARACTERISTIC CURVES (each diode)



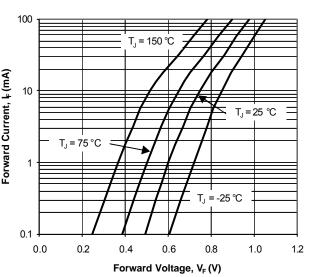


Fig. 2. Reverse Current vs. Reverse Voltage

Fig. 3. Forward Current vs. Forward Voltage

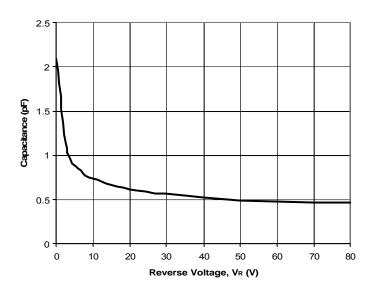
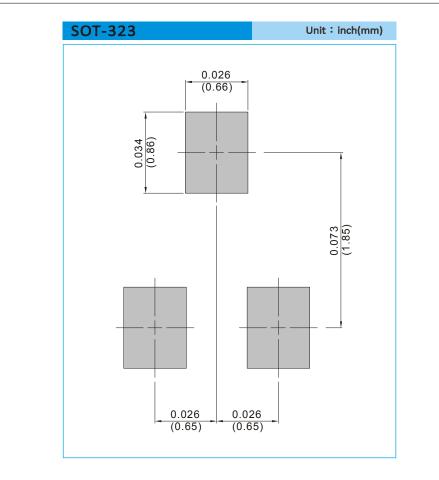


Fig. 4. Capacitance vs. Reverse Voltage



### MMBD6100W

#### MOUNTING PAD LAYOUT



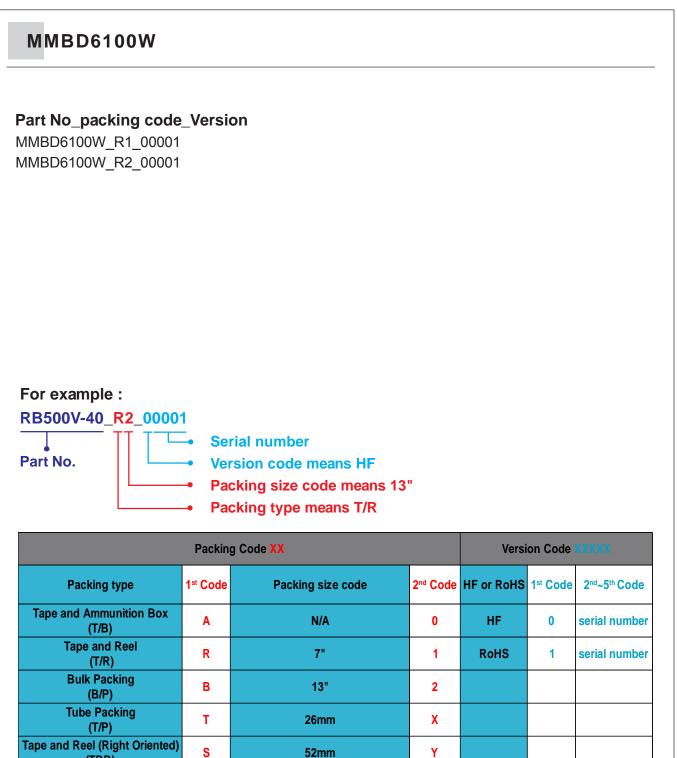
#### **ORDER INFORMATION**

Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





52mm

PANASERT T/B CATHODE UP

(PBCU) PANASERT T/B CATHODE DOWN

(PBCD)

U

D

(TRR) Tape and Reel (Left Oriented)

(TRL)

FORMING

L

F





## MMBD6100W

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