

MMBD7000

SWITCHING DIODE

VOLTAGE	100 Volt	POWER	225 mW
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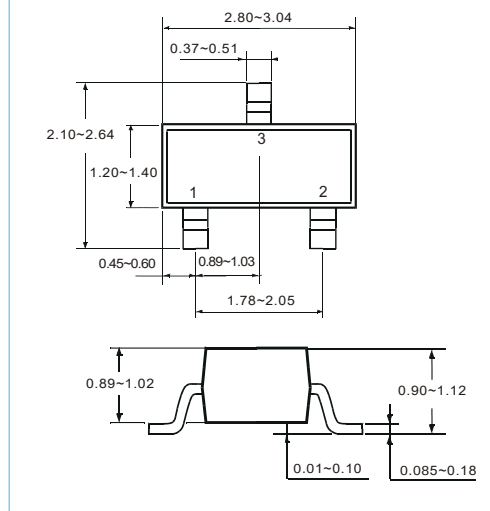
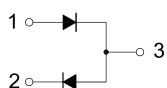
SOT-23 Unit:mm

FEATURES

- Fast Switching Speed
- For General Purpose Switching Applications
- Lead free in compliance with EU RoHS
- Marking code: M5C

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



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

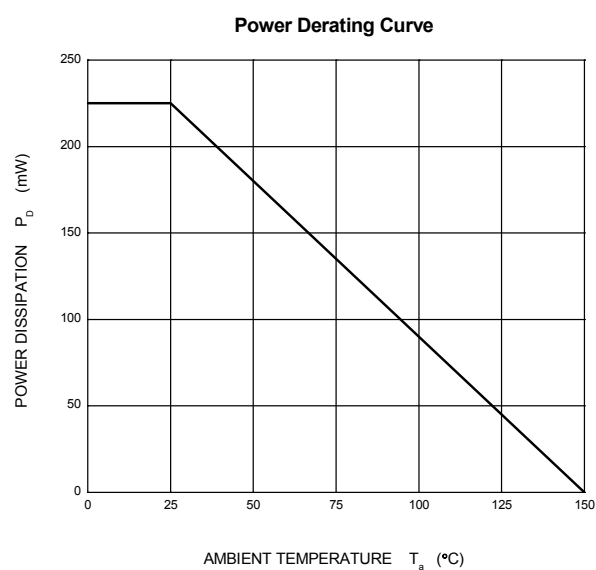
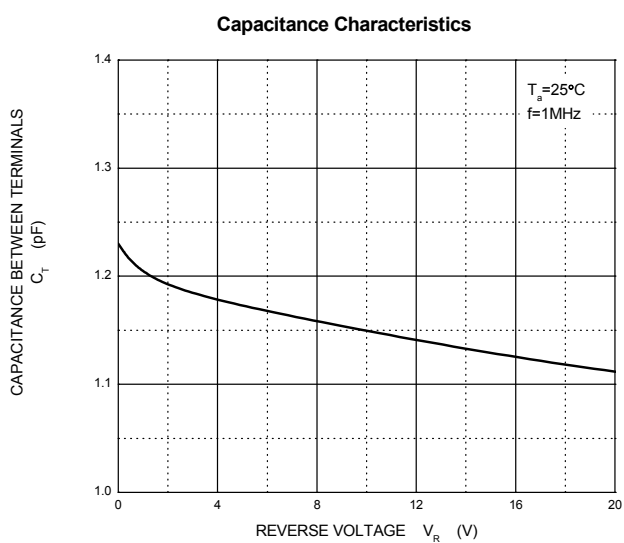
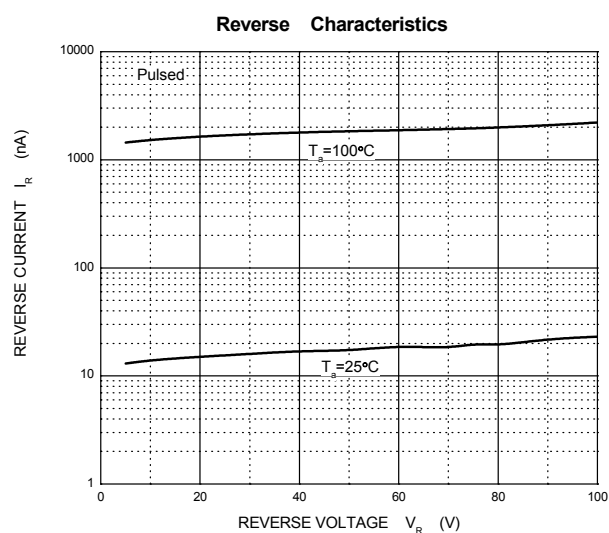
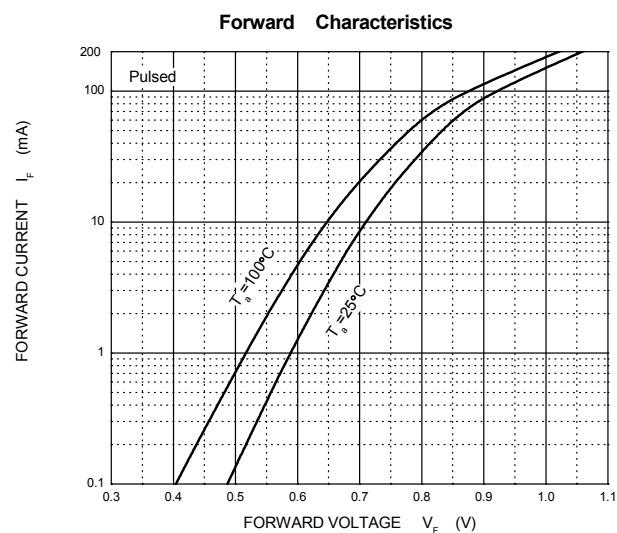
Parameter	Symbol	Value	Units
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
Peak Repetitive Peak Reverse Voltage	V_{RRM}	75	V
Working Peak Reverse Voltage	V_{RWM}		
RMS Reverse Voltage	$V_{R(RMS)}$	53	
Forward Continuous Current	I_{FM}	200	mA
Non-repetitive Peak Forward surge current @ $t=1s$	I_{FSM}	0.5	A
Power dissipation	P_D	225	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 to +150	$^\circ\text{C}$

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

Characteristic	Symbol	Conditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	($I_R = 100\mu\text{A}$)	100			V
Reverse Leakage	I_R	($V_R = 50\text{ V}$) ($V_R = 100\text{ V}$)			1 3	μA
Forward Voltage	V_F	($I_F = 1.0\text{ mA}$) ($I_F = 10\text{ mA}$) ($I_F = 100\text{ mA}$)	0.55 0.67 0.75		0.70 0.82 1.10	V
Total Capacitance	C_T	($V_R = 0\text{ V}$, $f = 1.0\text{ MHz}$)			2.0	pF
Reverse Recovery Time	t_{rr}	$I_F=10\text{mA}$, $I_R=10\text{mA}$, $I_{rr}=0.1I_R$, $R_L=100\ \Omega$			4.0	ns

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Typical Characteristics

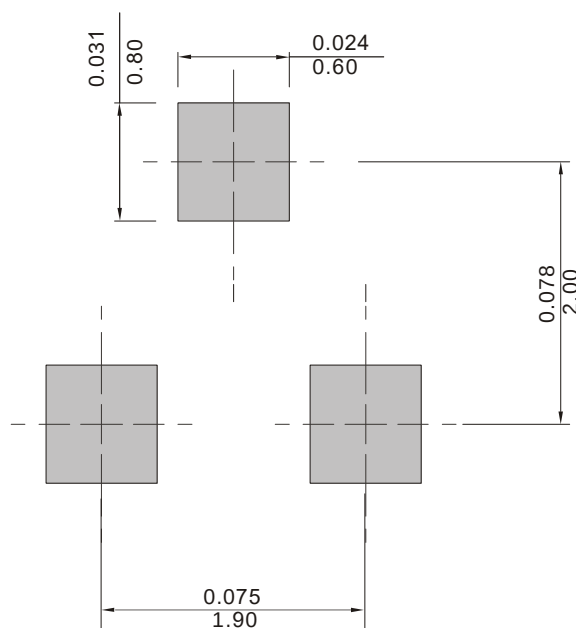


MMBD7000

MOUNTING PAD LAYOUT

SOT-23

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
MMBD7000	SOT-23	7 Inch	3000