

MMBD1501/1503/1504/1505

SWITCHING DIODE

VOLTAGE	180 Volt	CURRENT	0.6 Ampere
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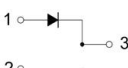
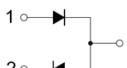
SOT-23 Unit:mm

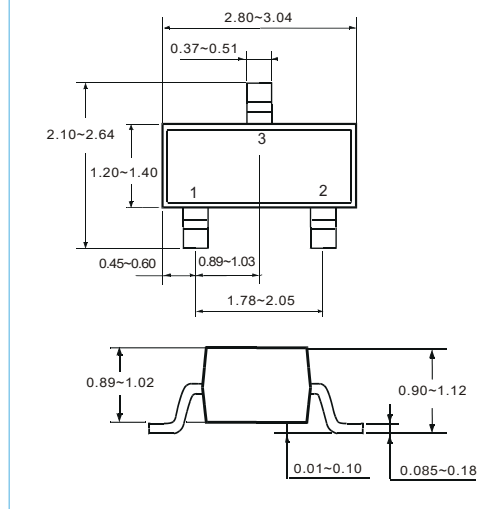
FEATURES

- Fast Switching Speed
- Low Leakage
- Lead free in compliance with EU RoHS

MECHANICAL DATA

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

MMBD1501	MMBD1503	MMBD1504	MMBD1505
			
MARKING: 11	MARKING:13	MARKING:14	MARKING:15



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS(T_A = 25°C unless otherwise noted)

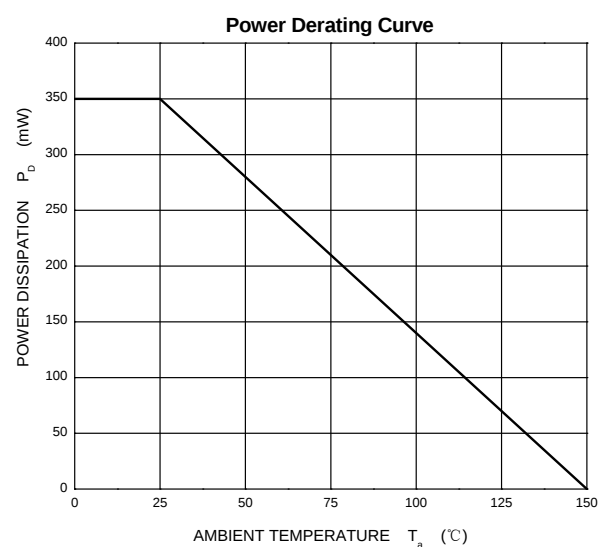
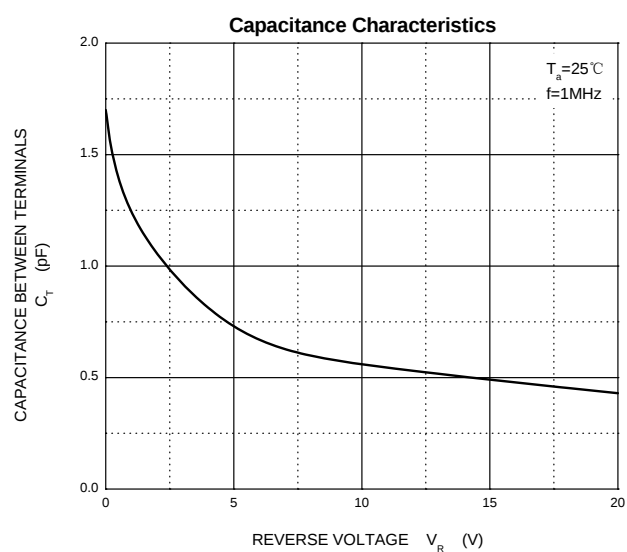
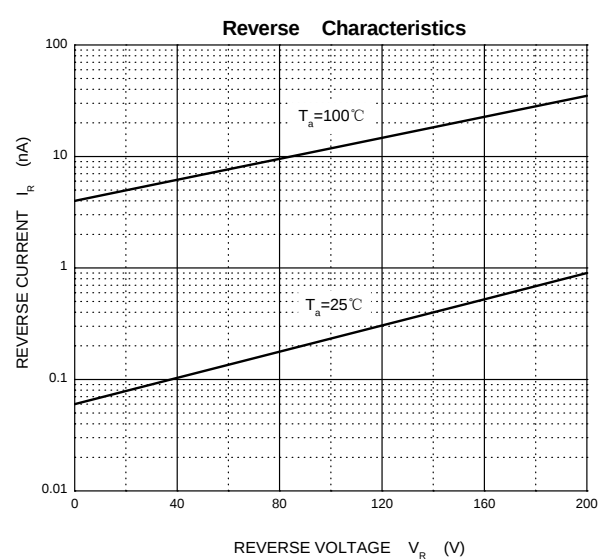
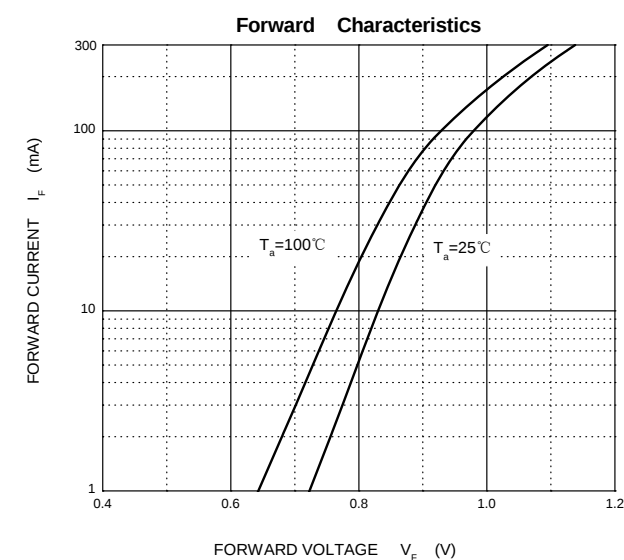
Parameter	Symbol	Value	Unit
Reverse Voltage	V_{RWM}	180	V
Working Peak Reverse Voltage	V_R		
Forward Current	I_{FM}	600	mA
Average Rectified Current	I_O	200	A
Non-repetitive Peak Forward Surge Current @ t=1s	I_{FSM}	1.0	A
Power Dissipation	P_D	350	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	357	°C/W
Junction Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55~+150	°C

ELECTRICAL CHARACTERISTICS(T_A = 25°C unless otherwise noted)

Parameter	Symbol	Min	Typ	Max	Unit	Test conditions
Reverse voltage	$V_{(BR)}$	200			V	$I_R = 5\mu A$
Forward voltage	V_F			0.75 0.85 0.95 1.10 1.30 1.50	V	$I_F = 1mA$ $I_F = 10mA$ $I_F = 50mA$ $I_F = 100mA$ $I_F = 200mA$ $I_F = 300mA$
Reverse current	I_R			10 5.0	nA μA	$V_R = 180V$ $V_R = 180V, T_A = 150^\circ C$
Junction Capacitance	C_J			4	pF	$V_R = 1V, f = 1MHz$

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Typical Characteristics

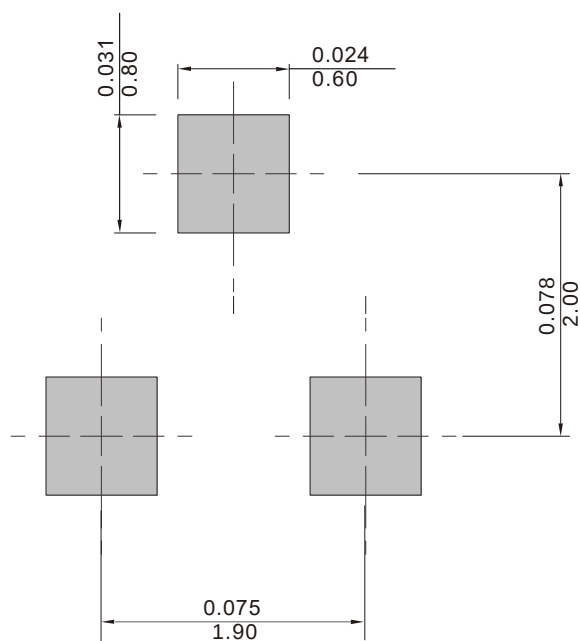


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MOUNTING PAD LAYOUT

SOT-23

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
MMBD1501/1503/1504/1505	SOT-23	7 Inch	3000