

MMBD1501A/1503A/1504A/1505A

SWITCHING DIODE

VOLTAGE 180 Volt **CURRENT** 0.6 Ampere

SOT-23

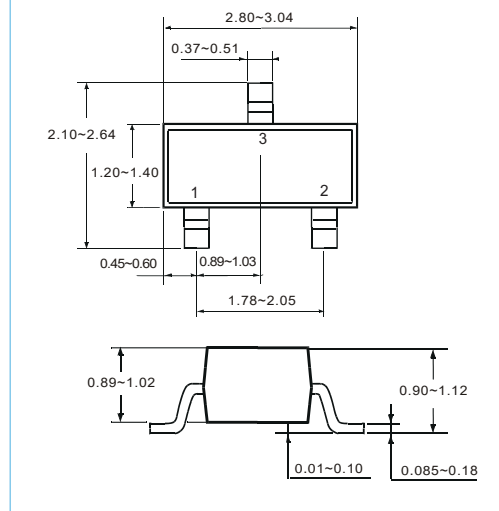
Unit:mm

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



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

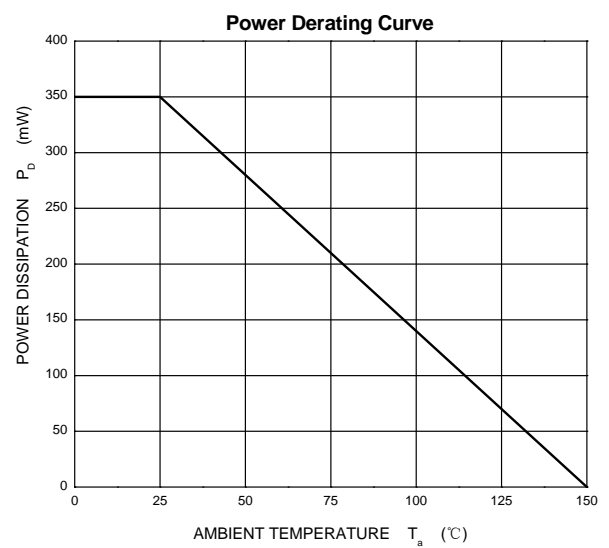
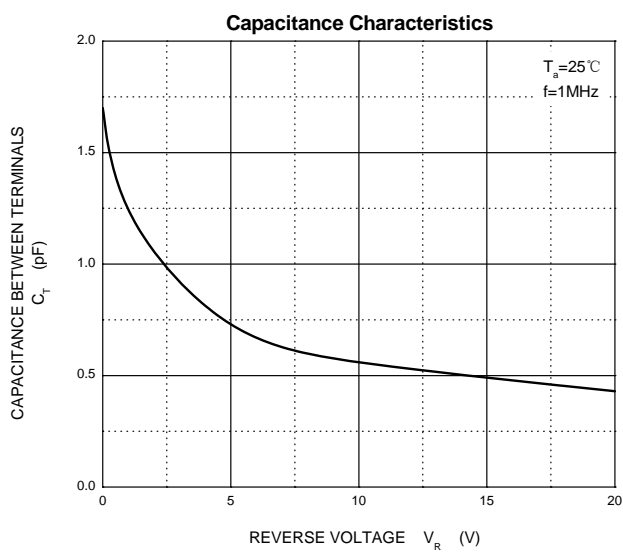
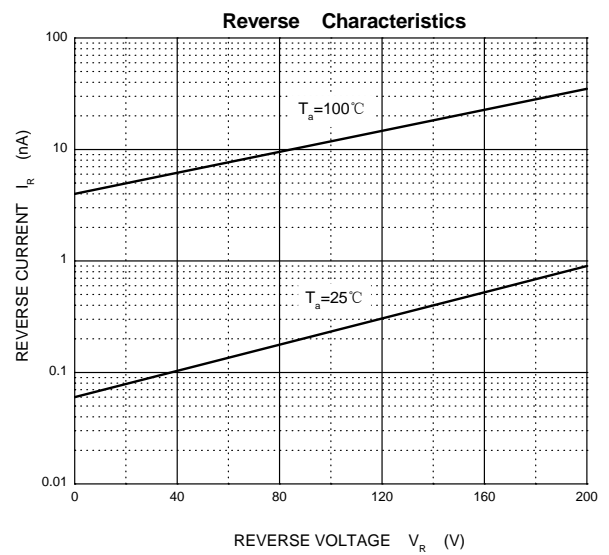
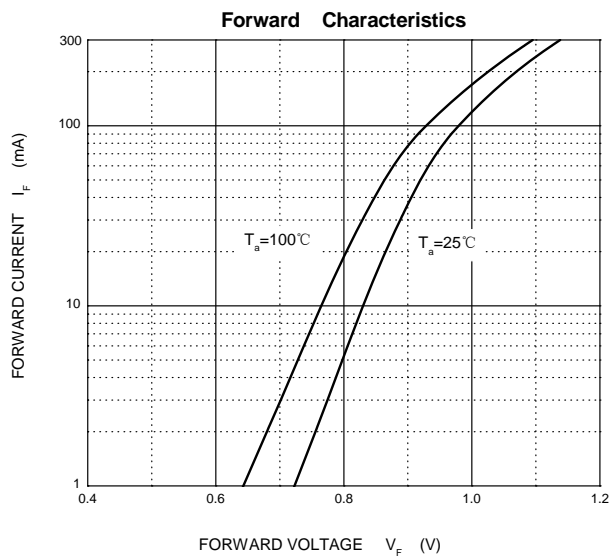
Parameter	Symbol	Value	Unit
Reverse Voltage	V_{RWM}	180	V
Working Peak Reverse Voltage	V_R		
Forward Current	I_{FM}	600	mA
Average Rectified Current	I_O	200	A
Non-repetitive Peak Forward Surge Current @ $t=1s$	I_{FSM}	1.0	A
Power Dissipation	P_D	350	mW
Thermal Resistance from Junction to Ambient	$R_{\theta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

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

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

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Typical Characteristics

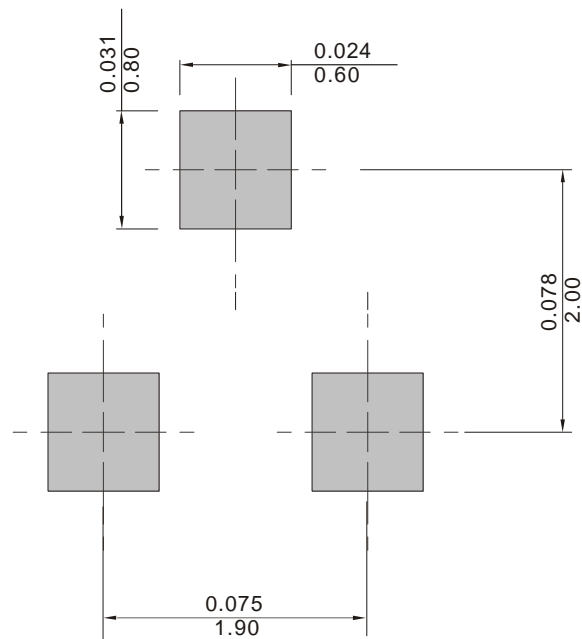


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MOUNTING PAD LAYOUT

SOT-23

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
MMBD1501A/1503A/1504A/1505A	SOT-23	7 Inch	3000