

MMBD4448

SWITCHING DIODE

VOLTAGE	100 Volt	POWER	350 mW
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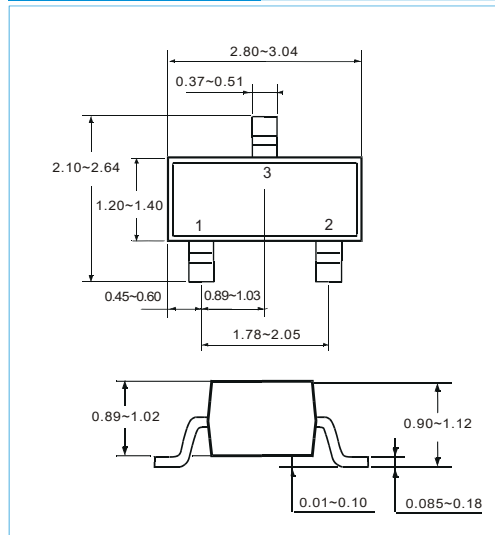
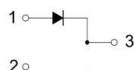
SOT-23 Unit:mm

FEATURES

- Fast Switching Speed
- For General Purpose Switching Applications
- Lead free in compliance with EU RoHS
- Marking code: KA3

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)

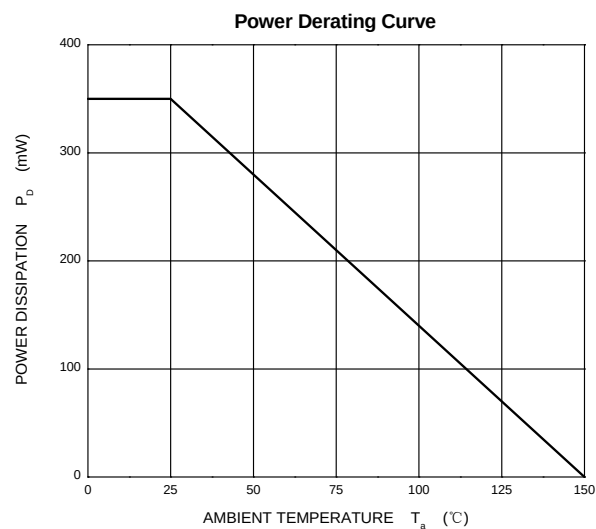
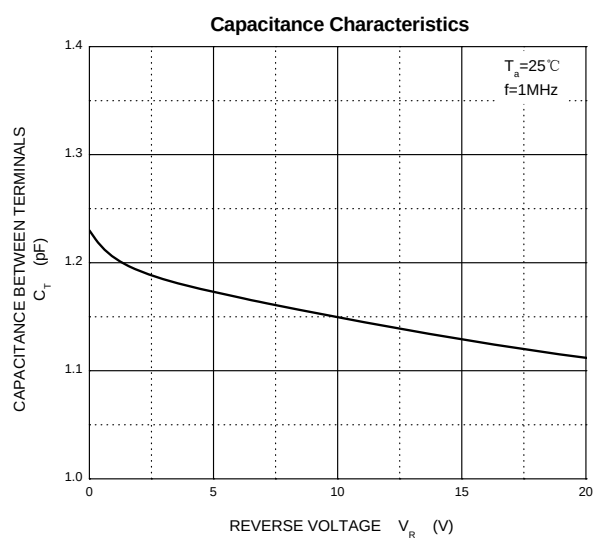
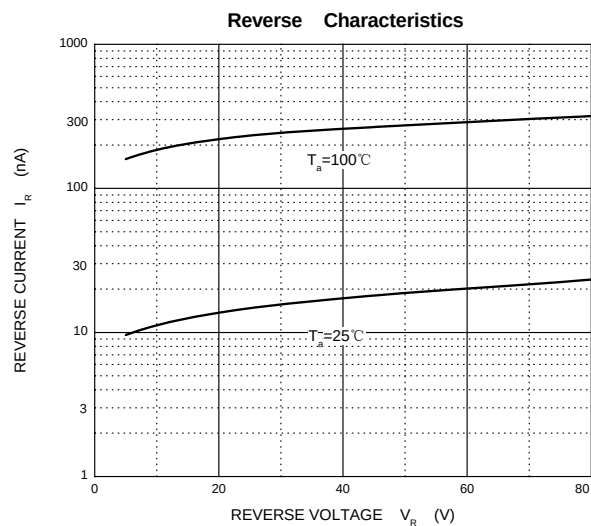
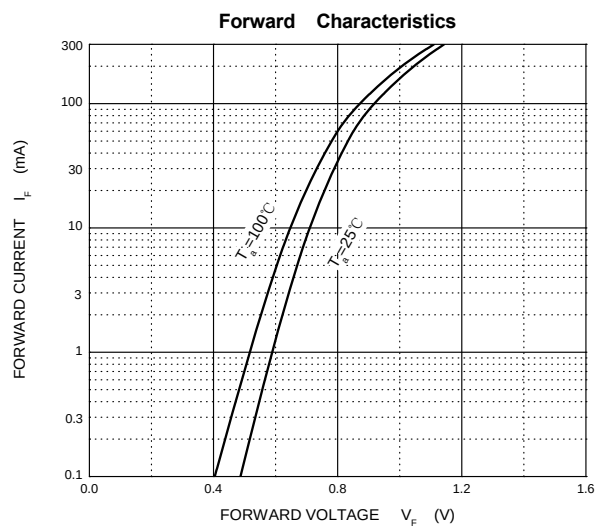
Parameter	Symbol	Value	Units
Peak reverse voltage	V_{RM}	100	V
Reverse voltage	V_R	75	V
Average Rectified Output Current	I_O	250	mA
Forward Continuous Current	I_{FM}	500	mA
Non-repetitive Peak Forward surge current @ $t=8.3\text{ms}$	I_{FSM}	2.0	A
Power dissipation	P_D	350	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	357	$^{\circ}\text{C/W}$
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 Leakage	I_R	$(V_R = 75 \text{ V})$			2.5	μA
		$(V_R = 20 \text{ V})$			25	nA
Forward Voltage	V_F	$(I_F = 5.0 \text{ mA})$	0.62		0.72	V
		$(I_F = 10 \text{ mA})$			0.855	
		$(I_F = 50 \text{ mA})$			1.00	
		$(I_F = 150 \text{ mA})$			1.25	
Total Capacitance	C_T	$(V_R = 0 \text{ V}, f = 1.0 \text{ MHz})$			4.0	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

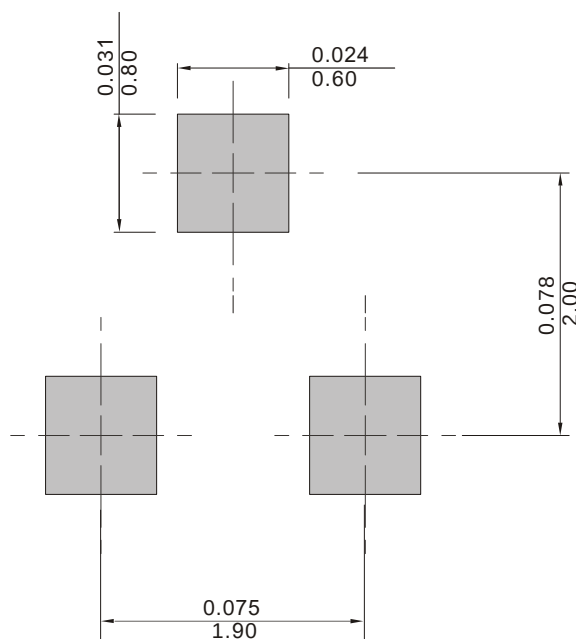


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MOUNTING PAD LAYOUT

SOT-23

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
MMBD4448	SOT-23	7 Inch	3000