

MMBD4148

SWITCHING DIODE

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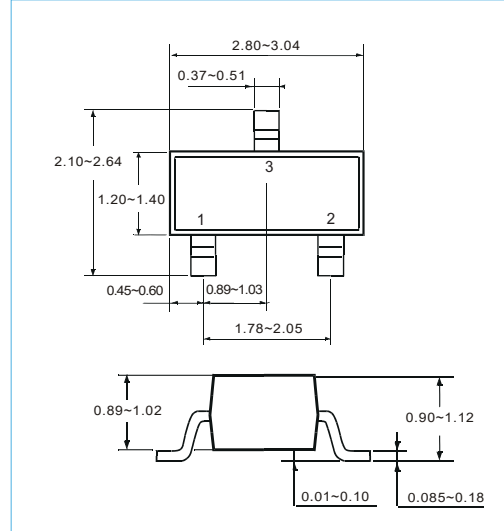
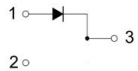
SOT-23 Unit:mm

FEATURES

- Fast Switching Speed
- For General Purpose Switching Applications
- Lead free in compliance with EU RoHS
- Marking code: KA2

MECHANICAL DATA

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



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

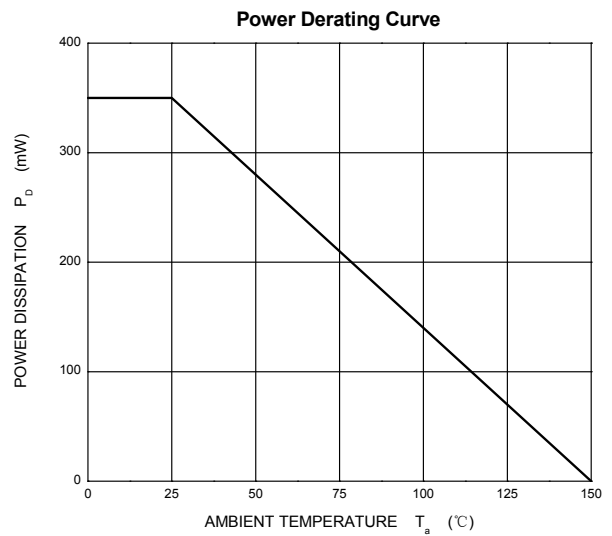
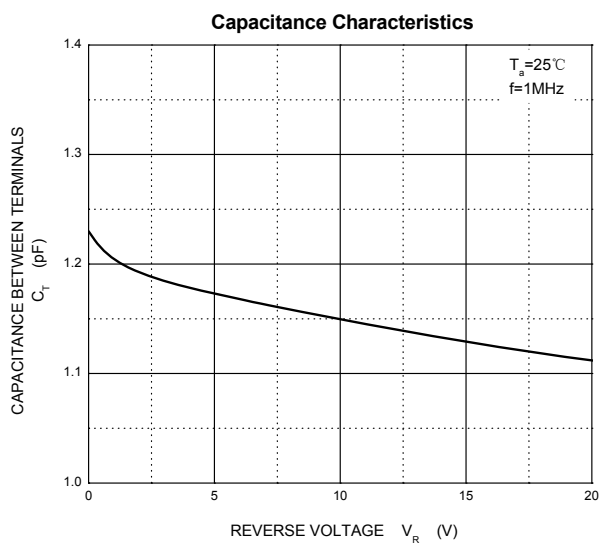
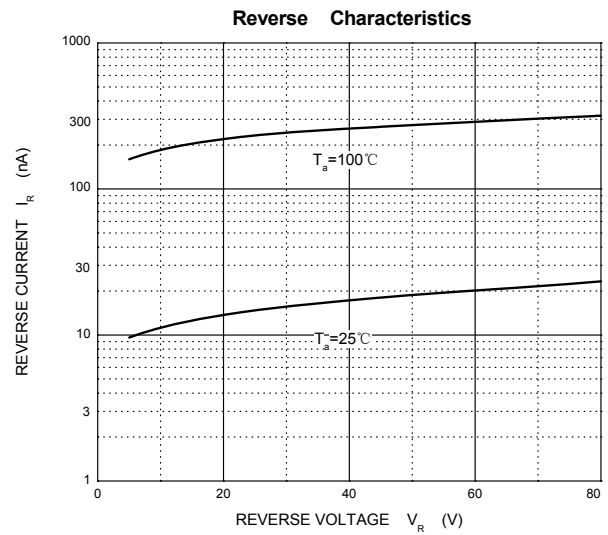
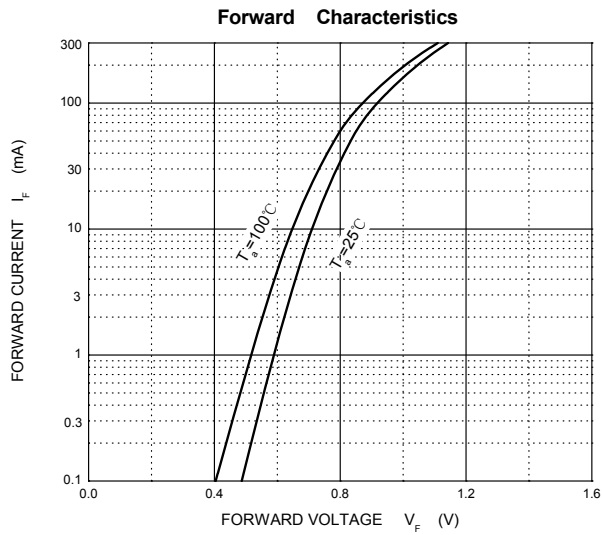
Parameter	Symbol	Value	Units
Peak reverse voltage	V _{RM}	100	V
Reverse voltage	V _R	75	V
Average Rectified Output Current	I _O	150	mA
Forward Continuous Current	I _{FM}	300	mA
Non-repetitive Peak Forward surge current @t=8.3ms	I _{FSM}	2.0	A
Power dissipation	P _D	350	mW
Thermal resistance junction to ambient	R _{θJA}	250	°C/W
Junction Temperature	T _J	150	°C
Storage Temperature	T _{STG}	-55 to +150	°C

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

Characteristic	Symbol	Conditions	Min	Typ	Max	Unit
Reverse Leakage	I _R	(V _R = 75 V)			2.5	μA
		(V _R = 20 V)			25	nA
Forward Voltage	V _F	(I _F = 1.0 mA)			0.715	V
		(I _F = 10 mA)			0.855	
		(I _F = 50 mA)			1.00	
		(I _F = 150 mA)			1.25	
Total Capacitance	C _T	(V _R = 0 V, f = 1.0 MHz)			2.0	pF
Reverse Recovery Time	t _{rr}	I _F =10mA, I _R =10mA, I _{rr} =0.1xI _R , R _L =100 Ω			4.0	ns

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Typical Characteristics

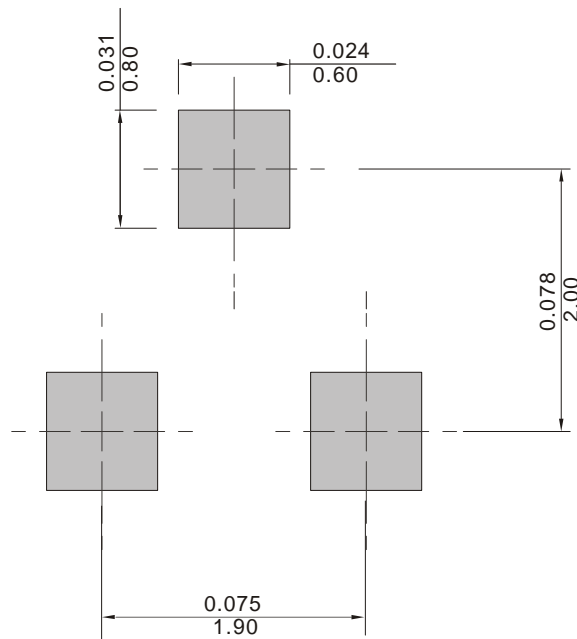


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MOUNTING PAD LAYOUT

SOT-23

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
MMBD4148	SOT-23	7 Inch	3000