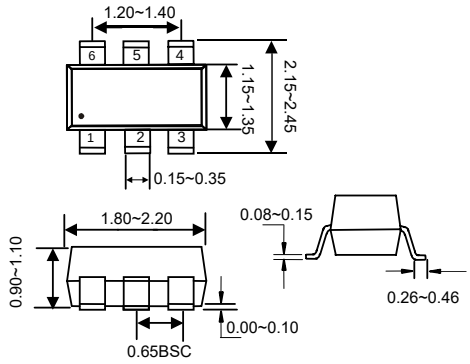
MMBD4448DW

SWITCHING DIODE

VOLTAGE	75 Volt	POWER	200 mW

SOT-363 Unit:mm

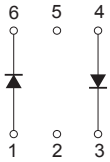


FEATURES

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance Power Dissipation
- 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°C unless otherwise noted)

Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	100	V
Peak Repetitive Peak Reverse Voltage **Working Peak Reverse Voltage** **DC Blocking Voltage**	V_{RRM} V_{RWM} V_R	75	V
RMS Reverse Voltage	$V_{R(RMS)}$	53	V
Forward Continuous Current	I_{FM}	500	mA
Average Rectified Output Current	I_O	250	mA
Non-Repetitive Peak Forward Surge Current @t=1us	I_{FSM}	4.0	A
Power Dissipation	Pd	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625	℃/W
Junction Temperature	T_j	150	℃
Storage Temperature	T_{STG}	-55~+150	℃

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

Characteristic	Symbol	Conditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage	$V_{(BR)R}$	(I_R = 10uA)	75			V
Reverse Leakage	I_R	(V_R = 75 V) (V_R = 20 V)			2.5 25	uA nA
Forward Voltage	V_F	(I_F = 5.0 mA) (I_F = 10 mA) (I_F = 50 mA) (I_F = 150 mA)	0.62		0.72 0.855 1.00 1.25	V
Total Capacitance	C_T	(V_R = 0 V, f = 1.0 MHz)			4.0	pF
Reverse Recovery Time	t_{rr}	I_F=10mA, I_R=10mA, Irr=0.1xI_R, R_L=100 Ω			4.0	ns

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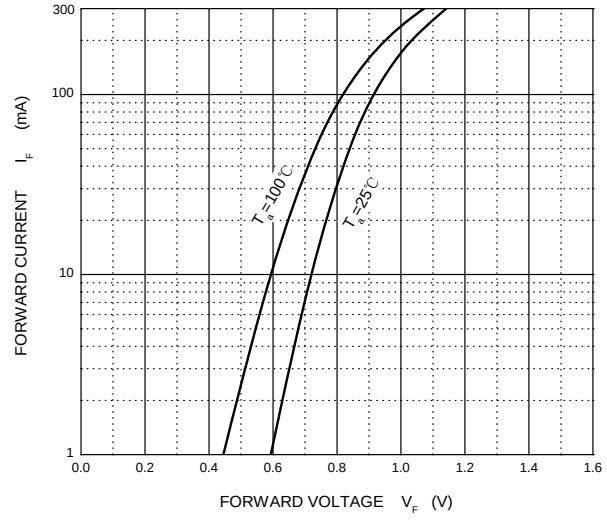
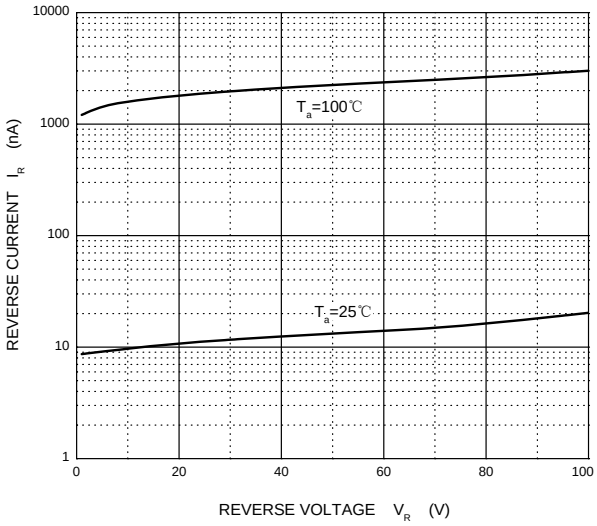
Typical Characteristics

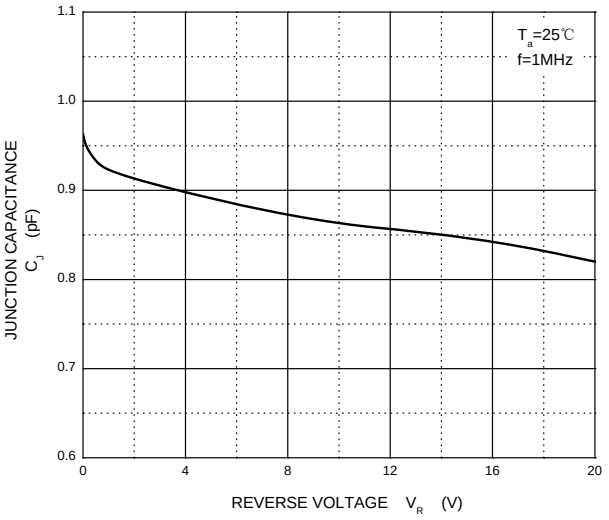
Forward Characteristics



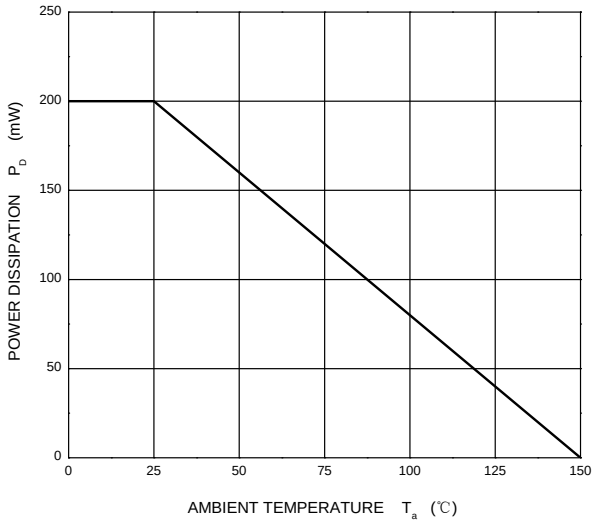
Reverse Characteristics



Capacitance Characteristics

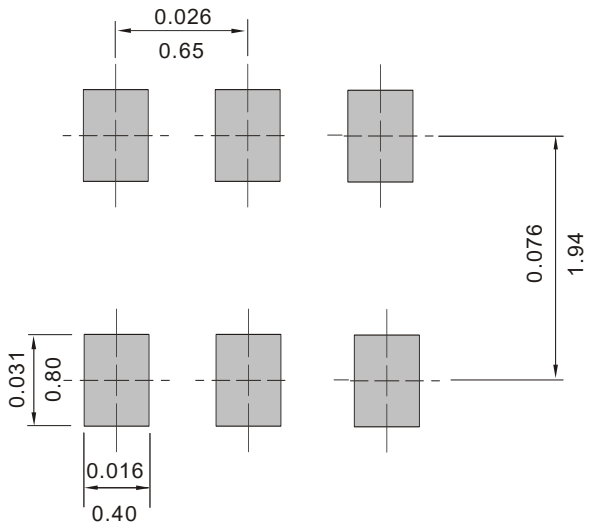


Power Derating Curve



MOUNTING PAD LAYOUT

SOT-363 Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
MMBD4448DW	SOT-363	7 Inch	3000