

MMBD4148CA/CC/SE

SWITCHING DIODE

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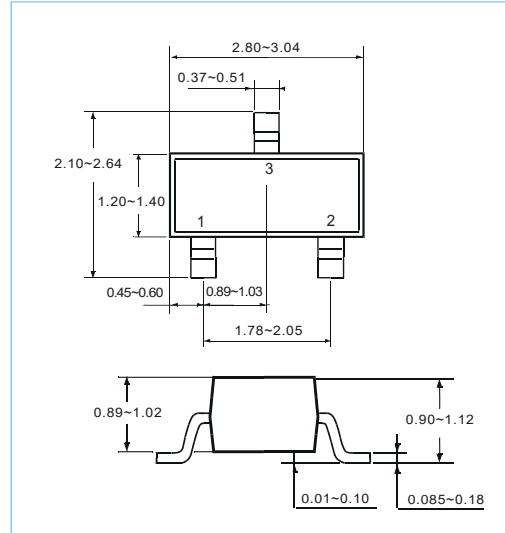
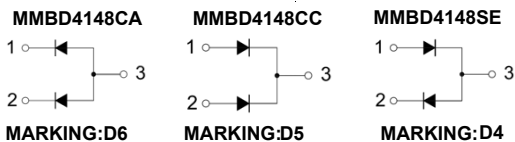
SOT-23 Unit:mm

FEATURES

- Fast Switching Speed
- For General Purpose Switching Applications
- Lead free in compliance with EU RoHS

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)

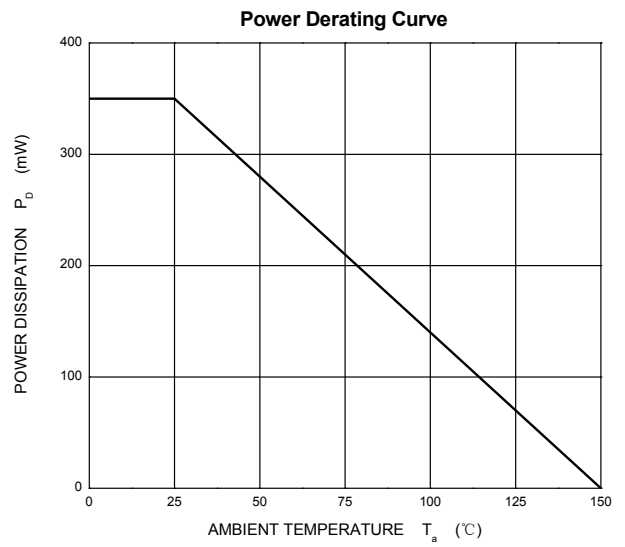
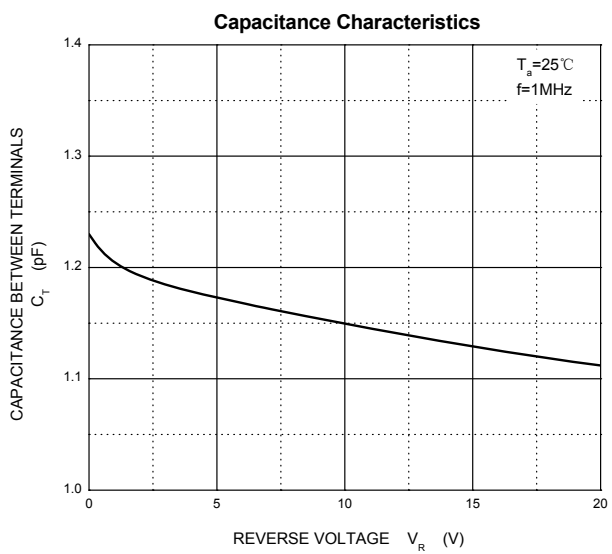
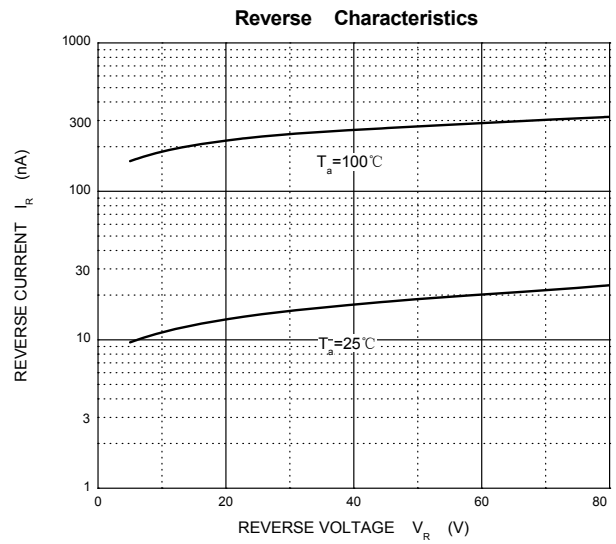
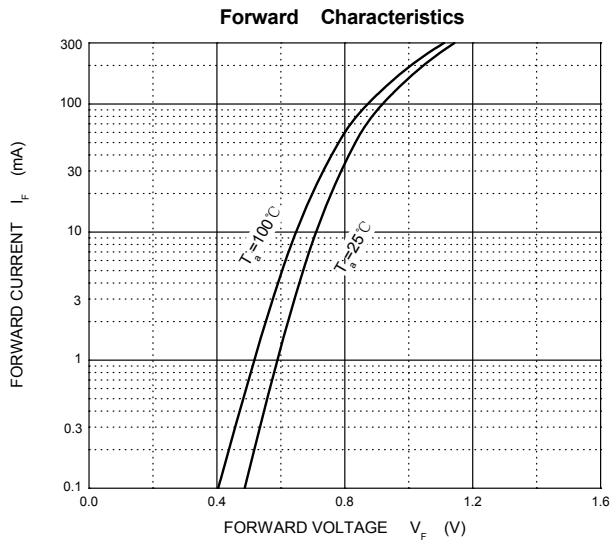
Parameter	Symbol	Value	Units
Peak reverse voltage	V_{RM}	100	V
Reverse voltage	V_R	75	V
Average Rectified Output Current	I_O	200	mA
Forward Continuous Current	I_{FM}	300	mA
Non-repetitive Peak Forward surge current @ $t=1s$	I_{FSM}	1.0	A
Power dissipation	P_D	350	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	357	$^\circ\text{C}/\text{W}$
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 to +150	$^\circ\text{C}$

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

Characteristic	Symbol	Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	$V_{(BR)}$	($I_R = 100\mu\text{A}$)	75			V
Reverse Leakage	I_R	($V_R = 75\text{V}$)			5.0	μA
		($V_R = 20\text{V}$)			25	nA
Forward Voltage	V_F	($I_F = 10\text{mA}$)			1.00	V
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

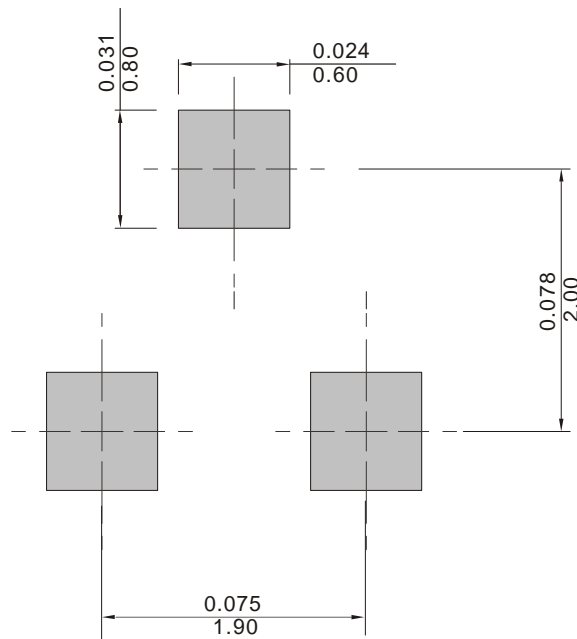


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MOUNTING PAD LAYOUT

SOT-23

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
MMBD4148CA/CC/SE	SOT-23	7 Inch	3000