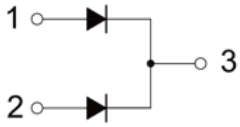
TL-MMBD4148CC

SOT-23 Plastic-Encapsulate Switching Diodes

Features

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance

SOT23



Equivalent Circuit

Absolute Maximum Ratings(T_A=25℃)

Symbol	Parameter	Value	Uniat
V_{RM}	Non-Repetitive Peak Reverse Voltage	100	V
V_{RRM}	Peak Repetitive Peak Reverse Voltage	100	V
V_{RWM}	Working Peak Reverse Voltage		
V_R	DC Blocking Voltage		
$V_{R(RMS)}$	RMS Reverse Voltage	72	V
I_{FM}	Forward Continuous Current	300	mA
I_O	Average Rectified Output Current	200	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current @ t= 8.3ms	2.0	A
P_d	Power Dissipation	350	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	357	℃/W
T_J,T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	℃

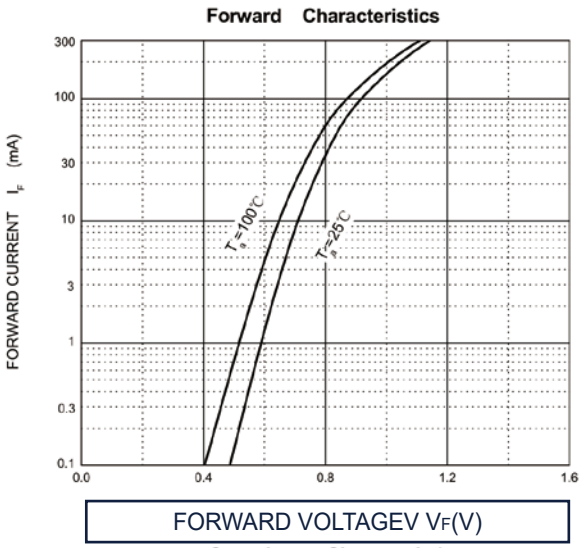
Electrical Characteristics (T_A=25℃ unless otherwise specified)

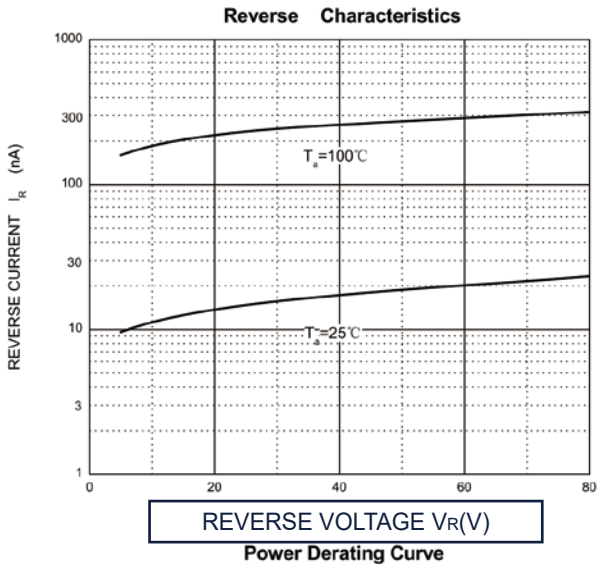
Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
$V_{(BR)1}$	Reverse breakdown voltage	I_R=100μA	100			V
$V_{(BR)2}$		I_R=5μA	75			V
V_F	Forward voltage	I_F=10mA			1	V
I_{R1}	Reverse current	V_R=75V			5	μA
I_{R2}		V_R=25V			25	nA
C_T	Capacitance between terminals	V_R=0V, f=1MHz			4	pF
t_{rr}	Reverse recovery time	I_F=I_R=10mA, V_R=6V, I_{rr}=0.1XI_R,R_L=100Ω			4	nS

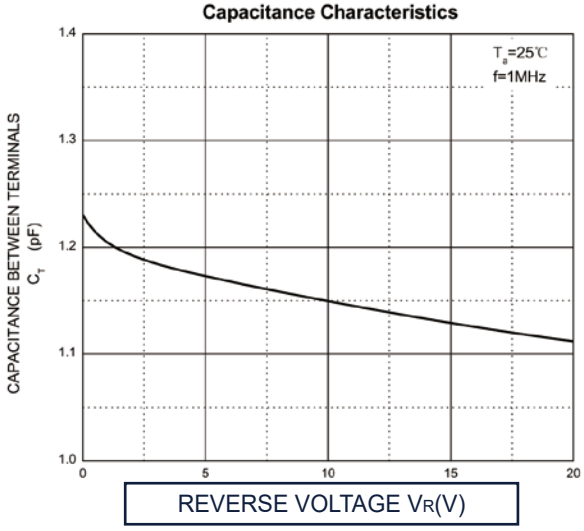
Ordering information

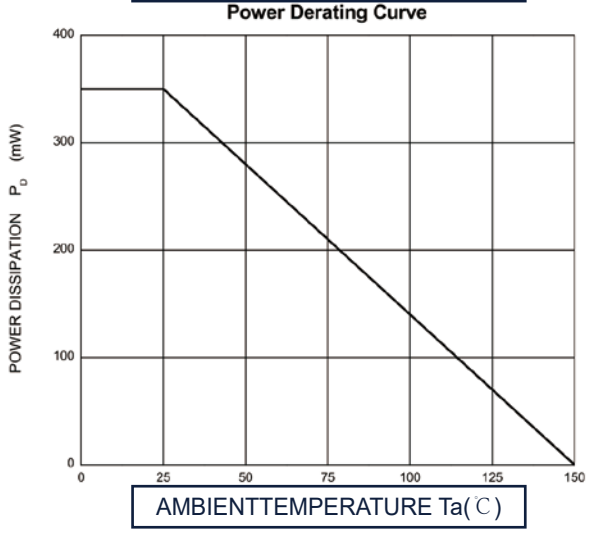
Product ID	Marking	Naming rule	Pack	Qty(PCS)
MMBD4148CC	D5	MMBD4148CC 产品名称 product name	SOT23	3000

Typical Characteristics

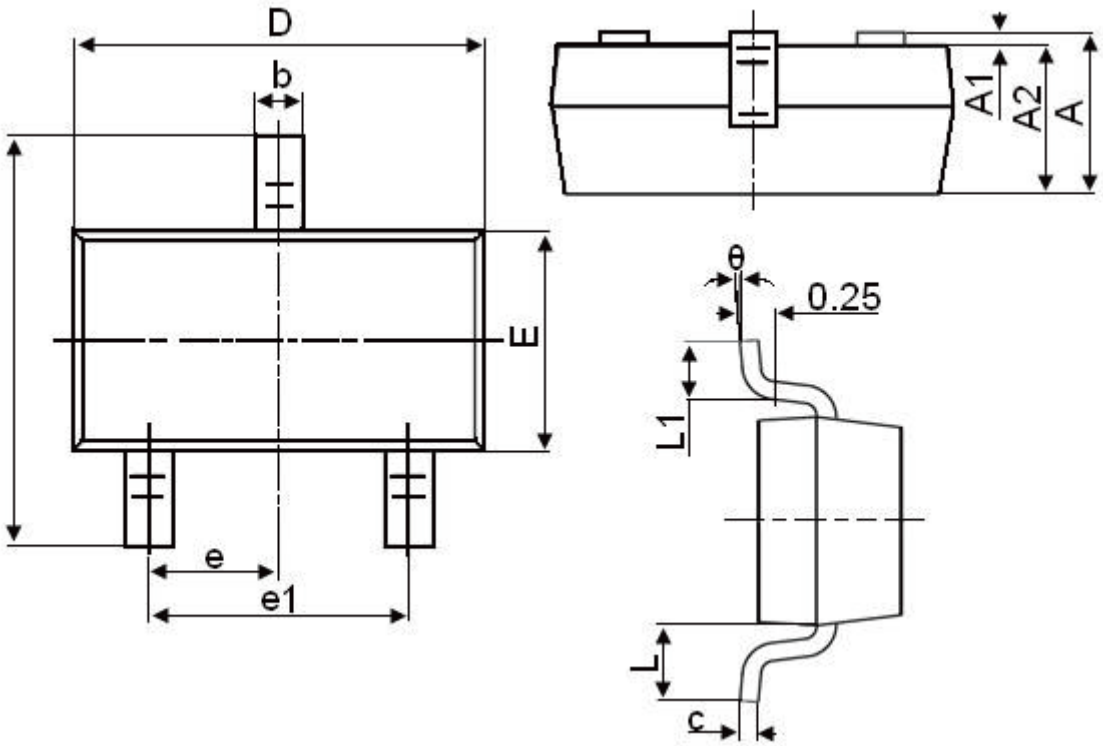








SOT23 Package Outline Dimensions



Symbol	Dimensions in Millimeters	
	mm	
	Min	Max
A	0.900	1.150
A1	0.000	0.100
A2	0.900	1.050
b	0.300	0.500
c	0.080	0.150
D	2.800	3.000
E	1.200	1.400
E1	2.250	2.550
e	0.950TYP	
e1	1.800	2.000
L	0.550REF	
L1	0.300	0.500
θ	0°	8°