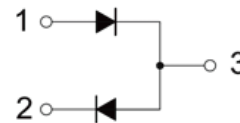


Features

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



SOT23



Equivalent Circuit

Absolute Maximum Ratings($T_A=25^{\circ}\text{C}$)

Symbol	Parameter	Value	Unit
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 @ $t=8.3\text{ms}$	2.0	A
P_d	Power Dissipation	350	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	357	$^{\circ}\text{C/W}$
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	$^{\circ}\text{C}$

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

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

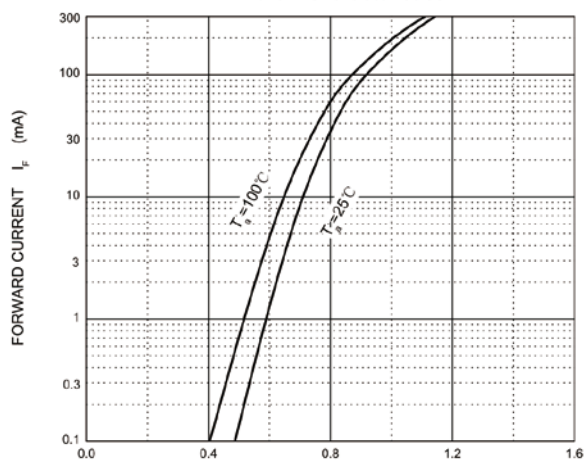
Ordering information

Product ID	Marking	Naming rule	Pack	Qty(PCS)
MMBD4148SE	D4	MMBD4148SE 产品名称 product name	SOT23	3000

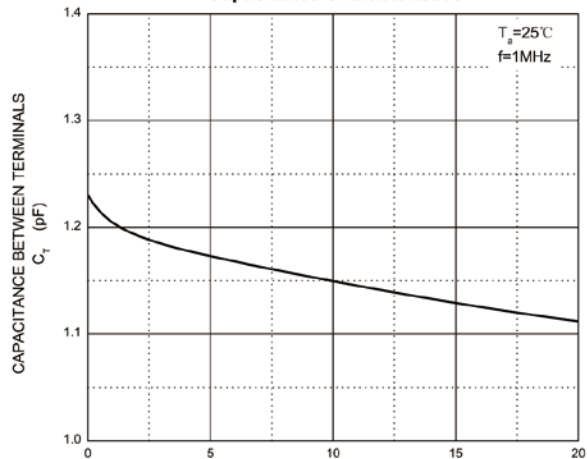


Typical Characteristics

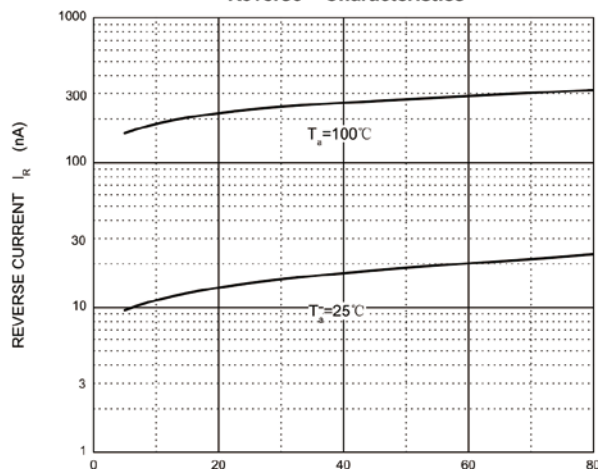
Forward Characteristics

FORWARD VOLTAGE V_F (V)

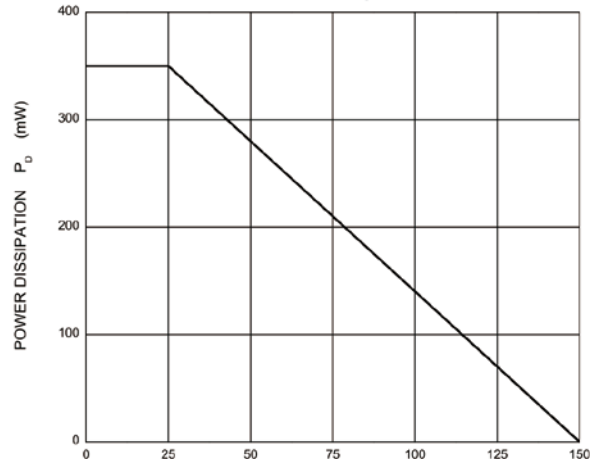
Capacitance Characteristics

REVERSE VOLTAGE V_R (V)

Reverse Characteristics

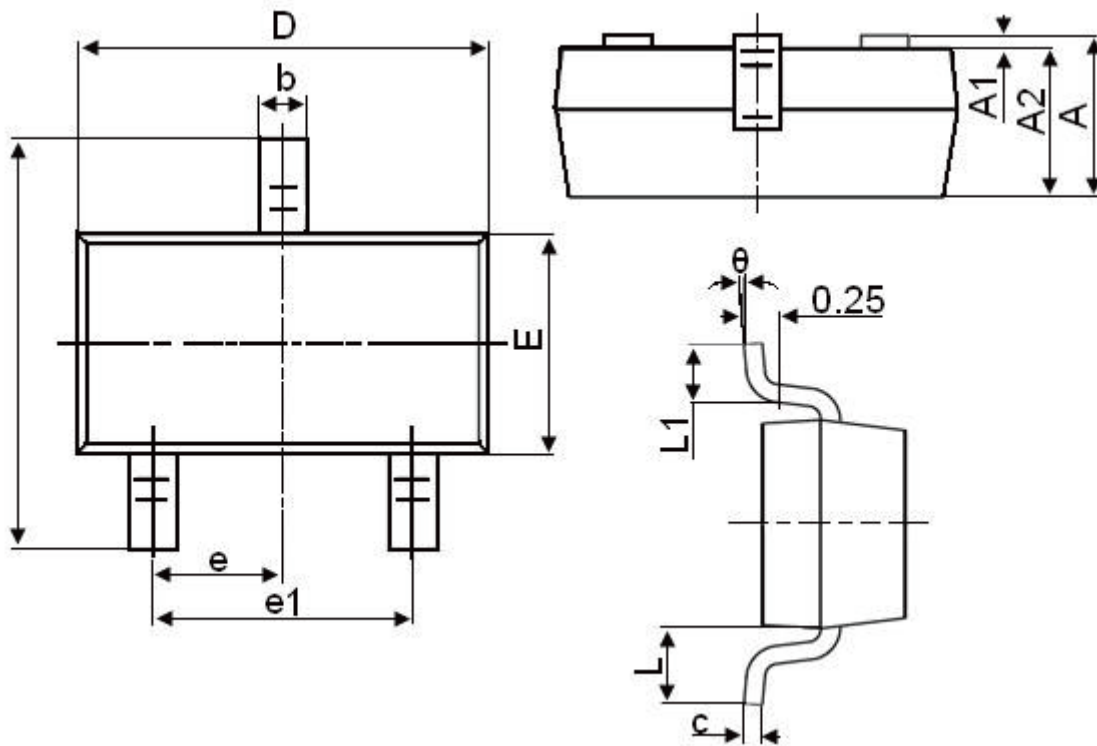
REVERSE VOLTAGE V_R (V)

Power Derating Curve

AMBIENT TEMPERATURE T_a ($^\circ\text{C}$)



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°