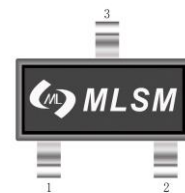


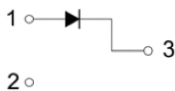
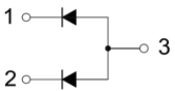
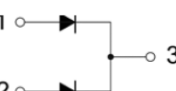
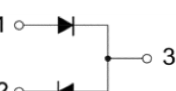
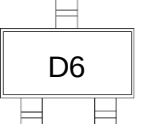
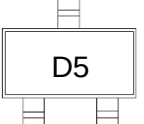
1

Features

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



SOT-23 top view

MMBD4148A	MMBD4148CA	MMBD4148CC	MMBD4148SE
			
Marking:5H	Marking:D6	Marking:D5	Marking:D4
			



Halogen-Free

Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C)

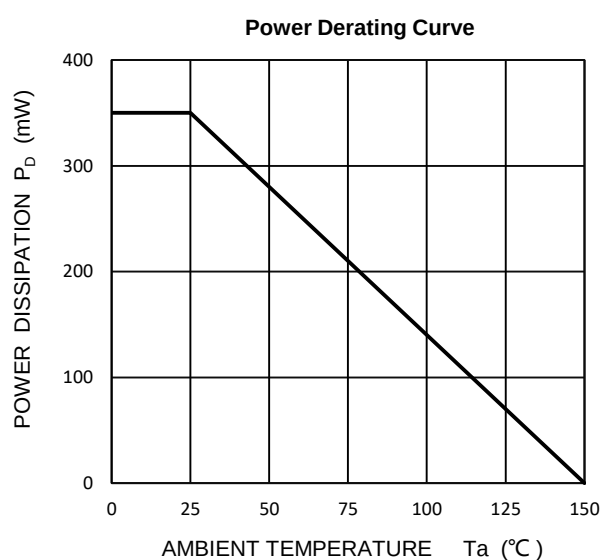
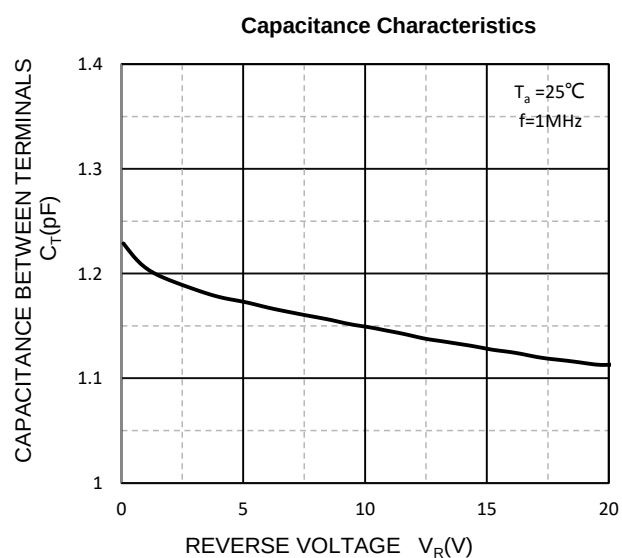
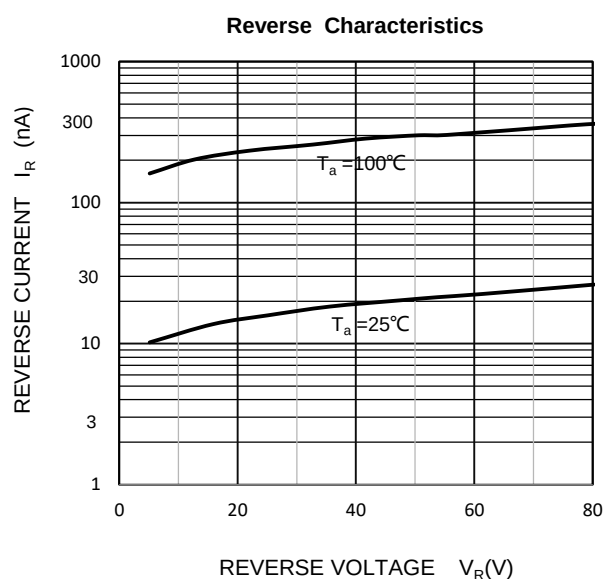
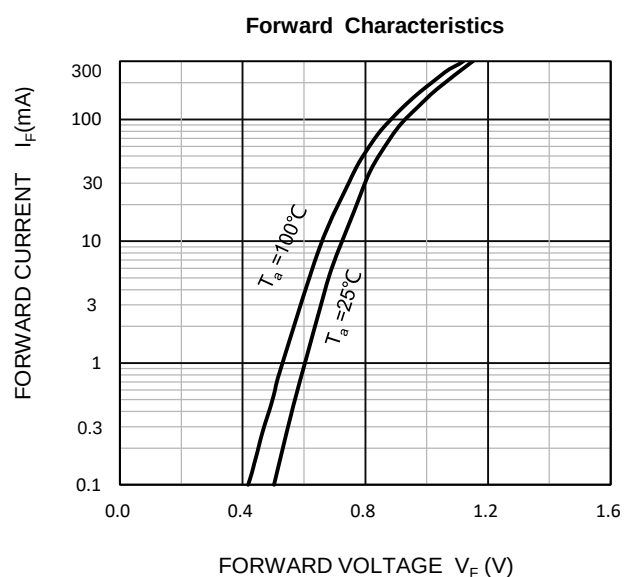
Symbol	Parameter	Limit	Unit
V_{RM}	Non-Repetitive Peak Reverse Voltage	100	V
V_{RRM}	Peak Repetitive Peak Reverse Voltage	100	V
V_{RWM}	Working Peak Reverse Voltage		
V_R	DC Blocking Voltage		
$V_{R(RMS)}$	RMS Reverse Voltage	72	V
I_{FM}	Forward Continuous Current	300	mA
I_O	Average Rectified Output Current	200	mA
I_{FSM}	Non-Repetitive Peak Forward Surge Current @ t=8.3ms	2	A
P_D	Power Dissipation	350	mW
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	357	°C/W
T_J, T_{STG}	Operation Junction and Storage Temperature Range	-55~+150	°C

Ordering Information (Example)

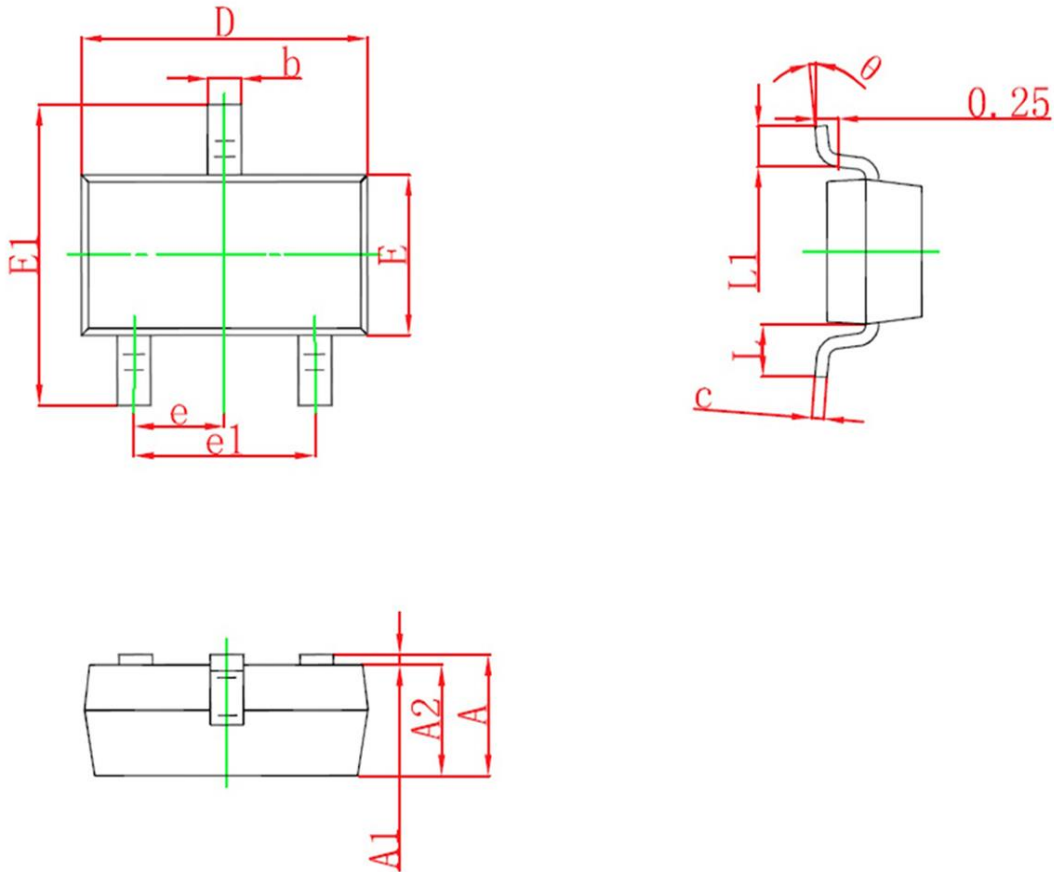
Type	Package	Marking	Minimum Package(pcs)	Inner Box Quantity(pcs)	Outer Carton Quantity(pcs)	Delivery Mode
MMBD4148A	SOT-23	5H	3,000	45,000	180,000	7"reel
MMBD4148CA	SOT-23	D6	3,000	45,000	180,000	7"reel
MMBD4148CC	SOT-23	D5	3,000	45,000	180,000	7"reel
MMBD4148SE	SOT-23	D4	3,000	45,000	180,000	7"reel

Electrical Ratings @Ta=25°C

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

Typical Operating Characteristics


SOT-23 Package information



Symbol	Dimensions in Millimeters(mm)		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E1	2.250	2.550	0.088	0.100
E	1.200	1.400	0.047	0.055
e	0.950TYP		0.037TYP	
e1	1.800	2.000	0.071	0.079
L	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°