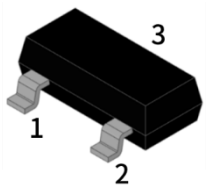
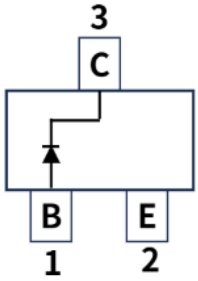
MMBD4148ALST1

SWITCHING DIODE



SOT23 (TO-236)



1. FEATURES

- High Stability and High Reliability.
- Fast Switching Speed

2. Mechanical Data

- SOT-23 Small Outline Plastic Package.
- Tin plated leads, solderable per J-STD-002 and JESD22-B102.
- Marking:KA2

3. ORDERING INFORMATION

Device	Min Pack	Inner Box	Outer Carton	Reel
MMBD4148LST1	3000	45000	180000	7 inch

4. MAXIMUM RATINGS (Ta = 25°C)

Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	VRM	100	V
Peak Repetitive Peak Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	75	V
RMS Reverse Voltage	VR(RMS)	53	V
Forward Continuous Current	IF(M)	300	mA
Average Rectified Output Current	IO	150	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	IFSM	2	A
Total Device Dissipation	PD	350	mW

5. THERMAL CHARACTERISTICS

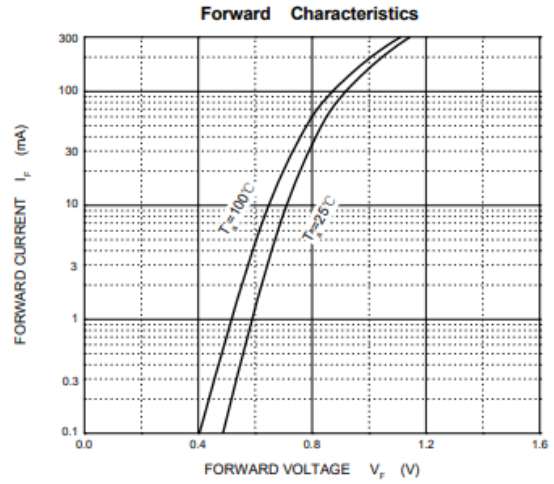
Parameter	Symbol	Limit	Unit
Operation Junction and Storage Temperature Range	TJ,TSTG	-55~150	°C
Thermal Resistance Junction to Ambient	RθJA	357	°C/W

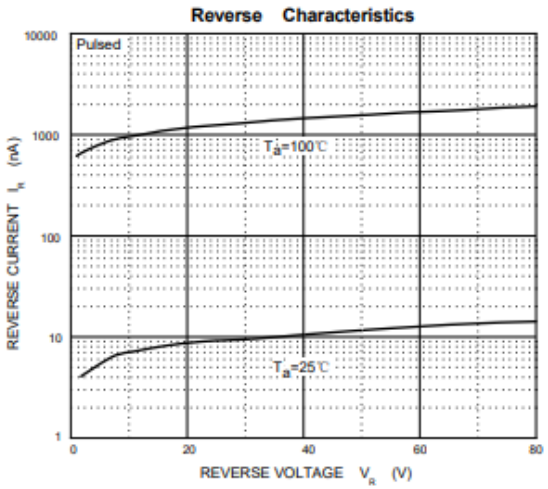
6. ELECTRICAL CHARACTERISTICS (Ta= 25°C unless otherwise specified)

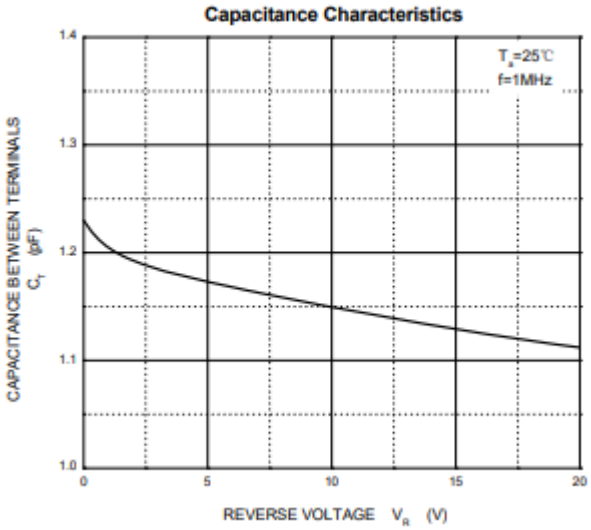
Parameter	Symbol	Condition	Min	Max	Unit
Reverse breakdown voltage	V(BR)1	IR=100μA	75		V
	VF1	IF=1mA		0.715	V

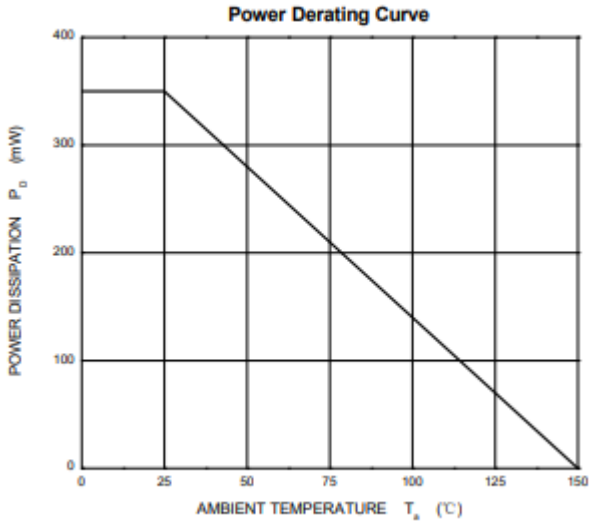
Forward voltage	VF2	IF=10mA		0.855	V
	VF3	IF=50mA		1	V
	VF4	IF=150mA		1,25	V
Reverse current	IR1	VR=75V		2.5	μA
	IR2	VR=25V		25	nA
Capacitance between terminals	CT	VR=0V,f=1MHz		2	pF
Reverse recovery time	trr	IF=IR=10mA,Irr=0.1XIR,RL=100Ω		4	ns

7. ELECTRICAL CHARACTERISTICS CURVES

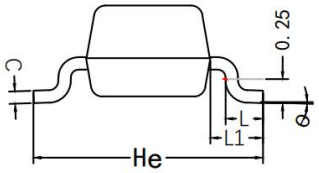


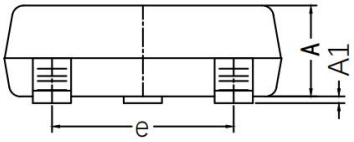


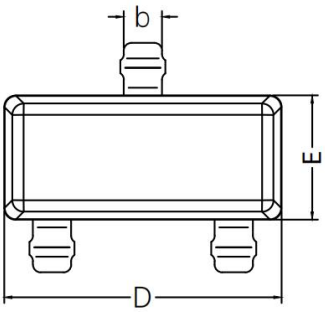




8. OUTLINE AND DIMENSIONS

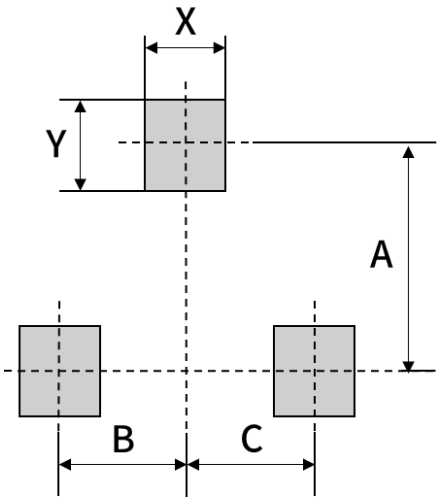






DIM	MIN	NOR	MAX
A	0.85	0.95	1.05
A1	0.01	0.06	0.10
b	0.36	0.44	0.52
c	0.09	0.13	0.18
D	2.80	2.90	3.10
E	1.20	1.30	1.40
e	1.78	1.90	2.04
L	0.30	0.40	0.50
L1	0.35	0.50	0.65
He	2.10	2.35	2.50
θ	0°	–	10°
All Dimensions in mm			

9. SUGGESTED PAD LAYOUT



SOT23		
DIM	mm	inch
A	2.00	0.079
B	0.95	0.037
C	0.95	0.037
X	0.80	0.031
Y	0.90	0.035

10. DISCLAIMER

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