

# EVVOSEMI<sup>®</sup>

THINK CHANGE DO



ESD



TVS



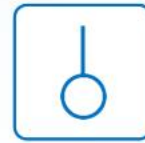
MOS



LDO



Diode



Sensor



DC-DC

## Product Specification

▶ Domestic	Part Number	MMBD4148A/CA/CC/SE
▶ Overseas	Part Number	MMBD4148A/CA/CC/SE
▶ Equivalent	Part Number	MMBD4148A/CA/CC/SE

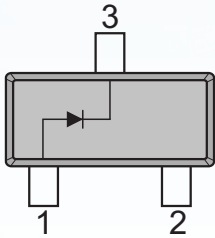
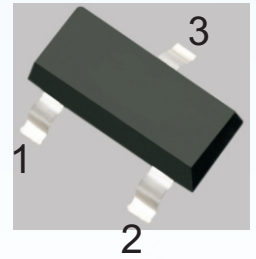
EV is the abbreviation of name EVVO

## Switching Diodes

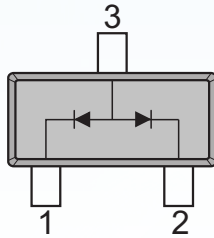
### FEATURES

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

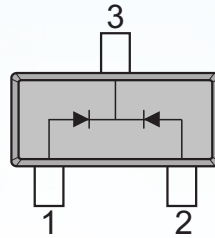
### SOT-23



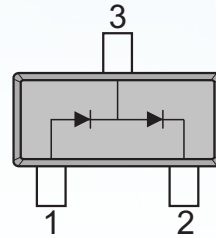
MMBD4148A



MMBD4148CA



MMBD4148CC



MMBD4148SE

### Maximum Ratings @Ta=25°C

Parameter	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	100	V
Peak Repetitive Peak Reverse Voltage	$V_{RRM}$	100	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Blocking Voltage	$V_R$		
RMS Reverse Voltage	$V_{R(RMS)}$	75	V
Forward Continuous Current	$I_{FM}$	300	mA
Average Rectified Output Current	$I_o$	200	mA
Peak Forward Surge Current @t=1.0μs @ t=1.0s	$I_{FSM}$	2.0 1.0	A
Power Dissipation	$P_D$	350	mW
Thermal Resistance Junction to Ambient	$R_{thJA}$	357	°C/W
Junction Temperature	$T_J$	150	°C
Storage Temperature	$T_{STG}$	-55 ~ +150	°C

### Electrical Characteristics@Ta=25°C

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	$V_{(BR)1}$	$I_R=100\mu A$	100			V
	$V_{(BR)2}$	$I_R=5\ \mu A$	75			V
Forward voltage	$V_F$	$I_F=10mA$			1.0	V
Reverse current	$I_{R1}$	$V_R=75V$			5.0	μA
	$I_{R2}$	$V_R=25V$			25	nA
Capacitance between terminals	$C_T$	$V_R=0V, f=1MHz$			4.0	pF
Reverse recovery time	$t_{rr}$	$I_F=I_R=10mA, V_R=6V$ $I_{rr}=0.1 \times I_R, R_L=100\Omega$			4.0	ns

Fig.1 Power Derating Curve

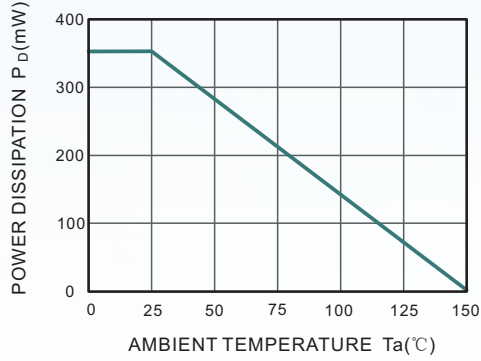


Fig.2 Reverse Characteristics

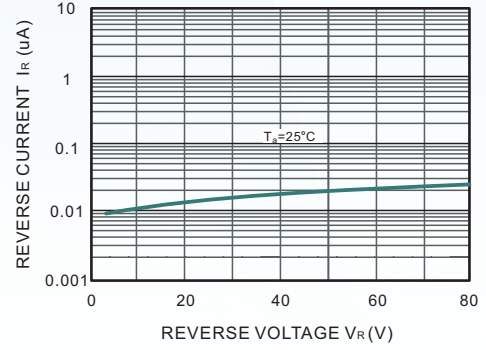


Fig.3 Forward Characteristics

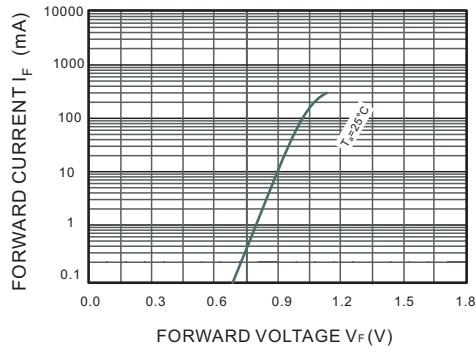


Fig.4 Capacitance Characteristics

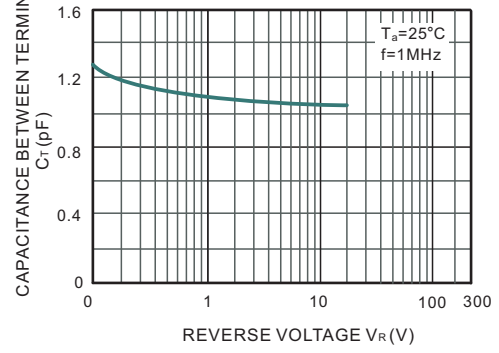
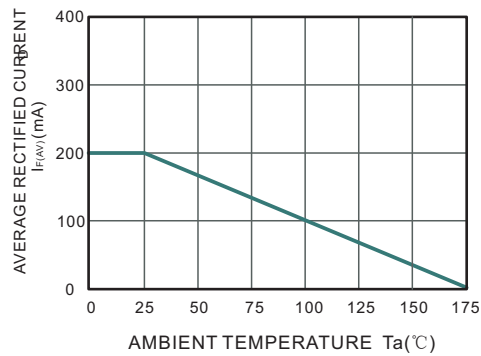
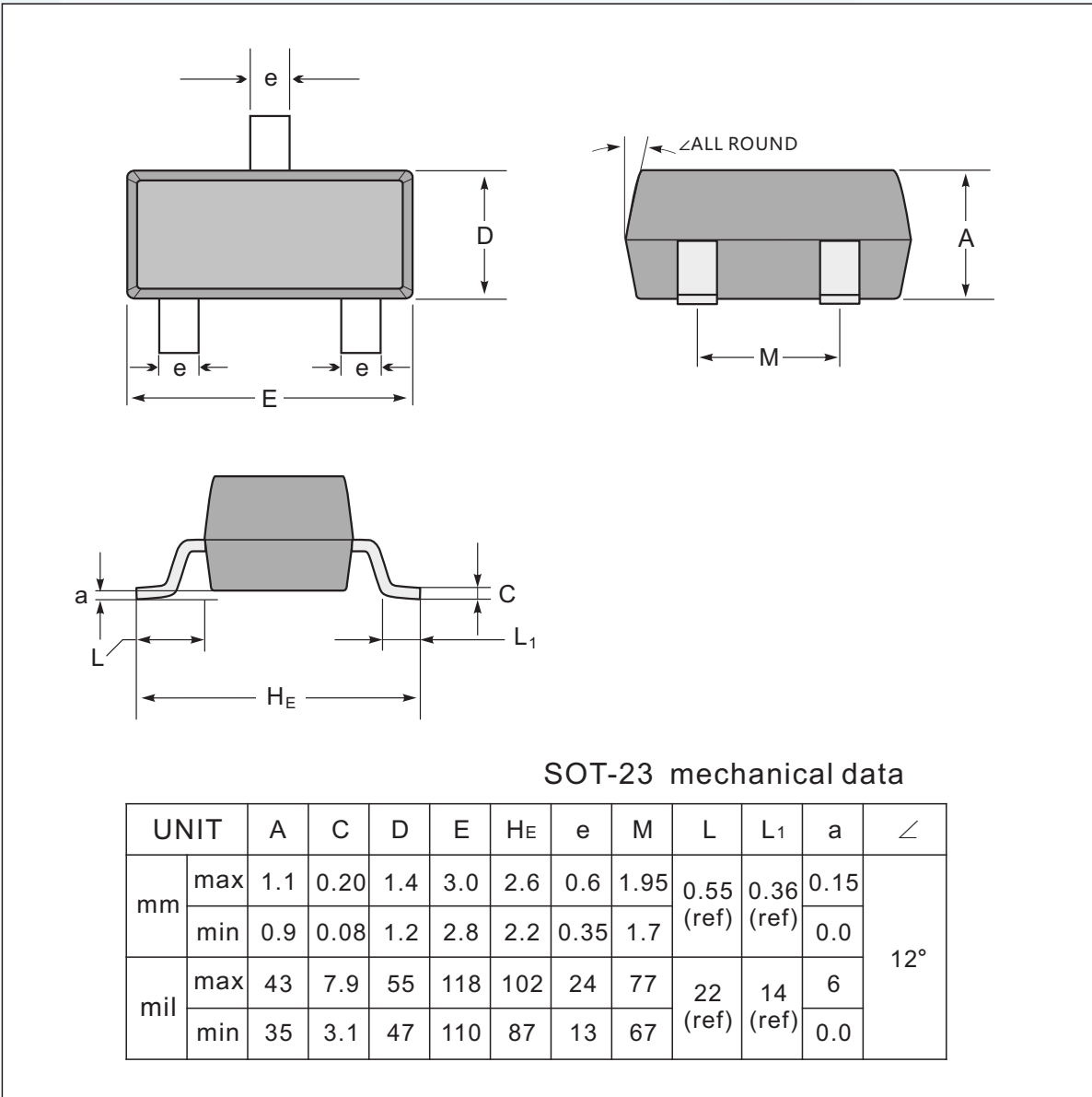


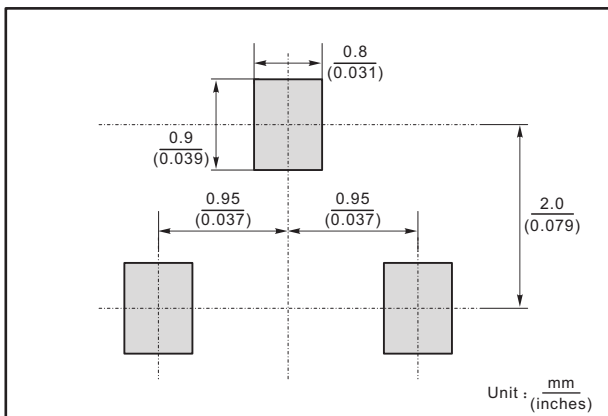
Fig.5 Semiconductor Intrinsic Property



### SOT-23 Package Outline Dimensions



#### The recommended mounting pad size



#### Marking

Type number	Marking code
MMBD4148A	5H
MMBD4148CA	D6
MMBD4148CC	D5
MMBD4148SE	D4

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