



## DESCRIPTION

The MMBD4148/CA/CC/SE is available in SOT-23 Package

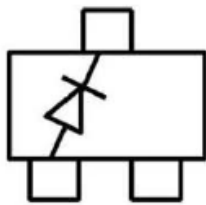
## ORDERING INFORMATION

Package Type	Part Number
SOT-23	MMBD4148
	MMBD4148CA
	MMBD4148CC
	MMBD4148SE
Note	SPQ: 3,000pcs/Reel
AiT provides all RoHS Compliant Products	

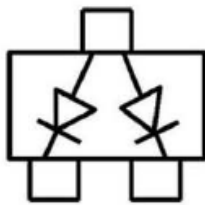
## FEATURES

- Power dissipation  
 $P_D: 350mW(T_{amb}=25^{\circ}C)$
- Forward Current  
 $I_F: 200mA$
- Reverse Voltage  
 $V_R: 100V(I_R=100\mu A)$
- Operating and storage junction temperature range  
 $T_J/T_{STG}: -55^{\circ}C$  to  $+150^{\circ}C$
- Available in SOT-23 Package

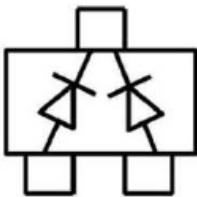
## PIN DESCRIPTION



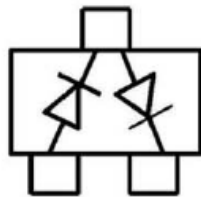
MMBD4148



MMBD4148CA



MMBD4148CC



MMBD4148SE



## ELECTRICAL CHARACTERISTICS

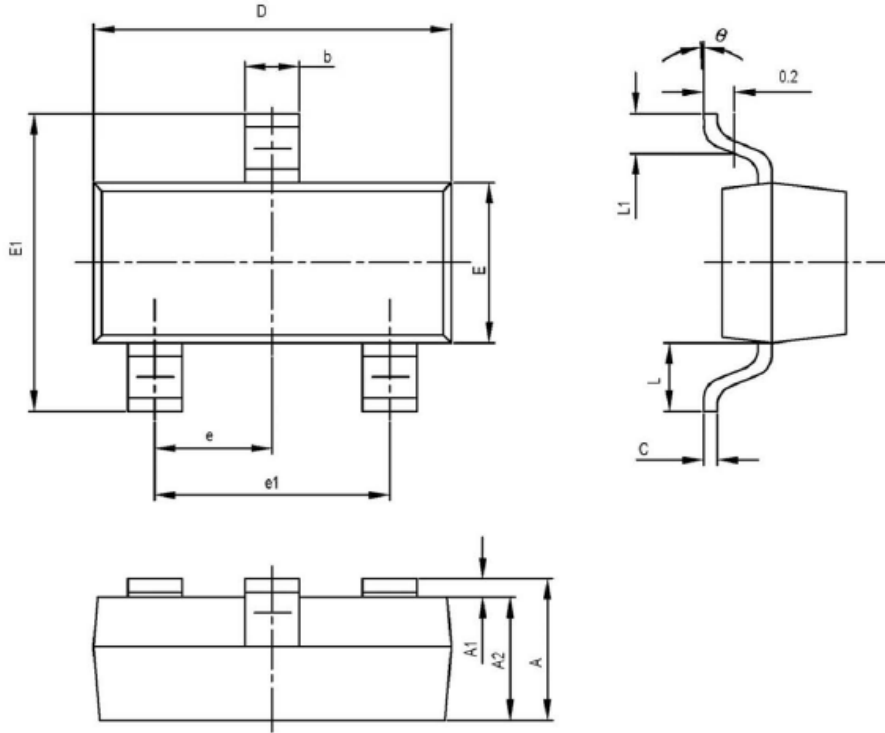
T<sub>amb</sub>=25°C, unless otherwise specified

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Reverse Breakdown Voltage	V <sub>(BR)</sub>	I <sub>R</sub> =100μA I <sub>R</sub> =5μA	100 75	-	-	V
Reverse Voltage Leakage Current	I <sub>R</sub>	V <sub>R</sub> =25V V <sub>R</sub> =75V	-	-	25 5	nA μA
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =10mA	-	-	1	V
Diode Capacitance	C <sub>D</sub>	V <sub>R</sub> =0, f=1MHz	-	-	4	pF
Reverse Recovery Time	t <sub>rr</sub>	I <sub>F</sub> =10mA, V <sub>R</sub> =6V I <sub>rr</sub> =1.0mA, R <sub>L</sub> =100Ω	-	-	4	ns



**PACKAGE INFORMATION**

Dimension in SOT-23 (Unit: mm)



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	0.900	1.100	0.035	0.043
A1	0.000	0.100	0.000	0.004
A2	0.900	1.000	0.035	0.039
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
E	1.200	1.400	0.047	0.055
E1	2.250	2.550	0.089	0.100
e	0.950 TYP		0.037 TYP	
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°



## IMPORTANT NOTICE

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