

# MMBD4148/CA/CC/SE

SWITCHING DIODE FORWARD VOLTAGE 1V CURRENT 200mA

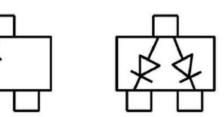
### **DESCRIPTION**

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

# ORDERING INFORMATION

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

# PIN DESCRIPTION

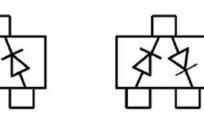


MMBD4148CA

MMBD4148SE

MMBD4148

MMBD4148CC



**FEATURES** 

Power dissipation

P<sub>D</sub>: 350mW(T<sub>amb</sub>=25°C)

Forward Current

I<sub>F</sub>: 200mA

Reverse Voltage

 $V_R:100V(I_R=100\mu A)$ 

Operating and storage junction temperature range

T<sub>J</sub>/T<sub>STG</sub>: -55°C to +150°C

Available in SOT-23 package

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# **ELECTRICAL CHARACTERISTICS**

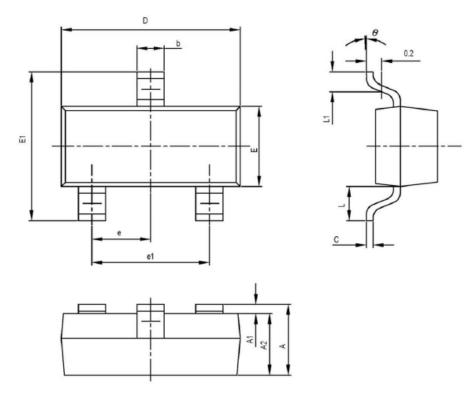
T<sub>amb</sub>=25°C, unless otherwise specified

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage	V <sub>(BR)</sub>	I <sub>R</sub> =100μA	100			V
		I <sub>R</sub> =5µA	75	-	-	V
Reverse Voltage Leakage Current	I <sub>R</sub>	V <sub>R</sub> =25V			25	nA
		V <sub>R</sub> =75V	-	-	5	μΑ
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =10mA	-	-	1	V
Diode Capacitance	С	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	-	-	4	ns
		I <sub>rr</sub> =1.0mA, R <sub>L</sub> =100Ω				

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# PACKAGE INFORMATION

Dimension in SOT-23 (Unit: mm)



DIM	MILLIMETERS		INCHES		
	MIN	MAX	MIN	MAX	
А	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	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
Е	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	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°	

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MMBD4148/CA/CC/SE

SWITCHING DIODE

FORWARD VOLTAGE 1V CURRENT 200mA

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