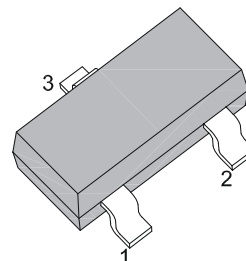


Dual Small Signal Switching Diode

Features

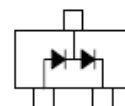
- Silicon Epitaxial Planar Diode
- Fast Switching Dual Diode. Especially Suited for Automatic Insertion
- High Conductance
- Electrically Identical to Standard JEDEC
- RoHS Compliant



Mechanical Data

Case:	SOT-23, Plastic Case
Terminals:	Solderable per MIL-STD-202G, Method 208
Weight:	Approx. 0.0088 gram

SOT-23



Maximum Ratings ($T_{Ambient}=25^{\circ}\text{C}$ unless noted otherwise)

Symbol	Description	MMBD7000	Unit	Conditions
	Marking Code	T3		
V_{RM}	Reverse Voltage	100	V	
V_{RRM}	Peak Reverse Voltage	100	V	
$I_{F(AV)}$	Forward Average Current	200	mA	
I_{FSM}	Peak Forward Surge Current, Pulse Width=1s	500	mA	
P_D	Power Dissipation on FR-5 Board	225	mW	$T_A=25^{\circ}\text{C}$
		1.8	mW/ $^{\circ}\text{C}$	Derate above 25°C
	Total Device Dissipation on Alumina Substrate	300	mW	$T_A=25^{\circ}\text{C}$
		2.4	mW/ $^{\circ}\text{C}$	Derate above 25°C
R_{thJA}	Typical Thermal Resistance	417	$^{\circ}\text{C/W}$	Note1
R_{thJA}	Junction to Ambient Air	556	$^{\circ}\text{C/W}$	Note2
T_J	Maximum Junction Temperature	150	$^{\circ}\text{C}$	
T_s	Storage Temperature Range	-55 to +150	$^{\circ}\text{C}$	

Note: 1) Device on alumina substrate
2) On FR-5 board

Dual Small Signal Switching Diode

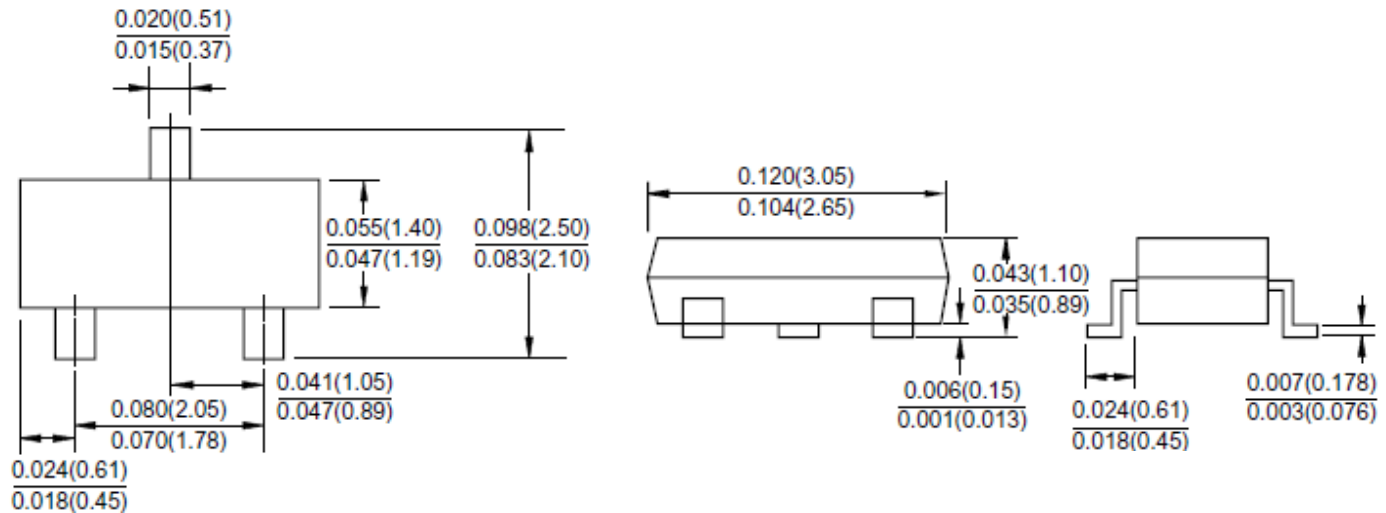
MMBD7000

Electrical Characteristics ($T_{\text{Ambient}}=25^{\circ}\text{C}$ unless noted otherwise)

Symbol	Description	Min.	Max.	Unit	Conditions
V_{BR}	Reverse Breakdown Voltage	100	-	V	I _R =100 μ A
I_R	Leakage Current	-	1.0	μ A	V _R =50V
		-	3.0		V _R =100V
		-	100		V _R =50V, T _j =125° C
V_F	Forward Voltage	0.55	0.70	V	I _F =1mA
		0.67	0.82		I _F =10mA
		0.75	1.10		I _F =100mA
C_D	Diode Capacitance	-	1.5	pF	V _R =0V, f=1MHz
T_{rr}	Reverse Recovery Time	-	4.0	nS	I _F =10mA, I _R =10mA, I _{rr} =1mA, R _L =100 Ω

Dimensions in inch (mm)

SOT-23



Dual Small Signal Switching Diode

MMBD7000

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