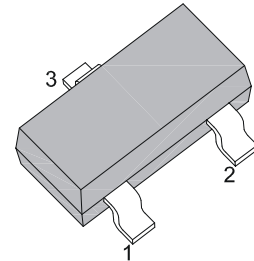


Dual Small Signal Switching Diode

Features

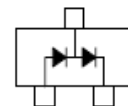
- Silicon Epitaxial Planar Diode
- Fast Switching Dual Diode. Especially Suited for Automatic Insertion
- High Conductance
- Electrically Identical to Standard JEDEC
- RoHS Compliant



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°C unless noted otherwise)*

Symbol	Description	MMBD7000	Unit	Conditions
	Marking Code	T3		
VRM	Reverse Voltage	100	V	
VRRM	Peak Reverse Voltage	100	V	
IF(AV)	Forward Average Current	200	mA	
IFSM	Peak Forward Surge Current, Pulse Width=1s	500	mA	
PD	Power Dissipation on FR-5 Board	225	mW	TA=25° C
		1.8	mW/° C	Derate above 25° C
	Total Device Dissipation on Alumina Substrate	300	mW	TA=25° C
		2.4	mW/° C	Derate above 25° C
RthJA	Typical Thermal Resistance	417	° C/W	Note1
RthJA	Junction to Ambient Air	556	° C/W	Note2
TJ	Maximum Junction Temperature	150	° C	
Ts	Storage Temperature Range	-55 to +150	° C	

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

Dual Small Signal Switching Diode

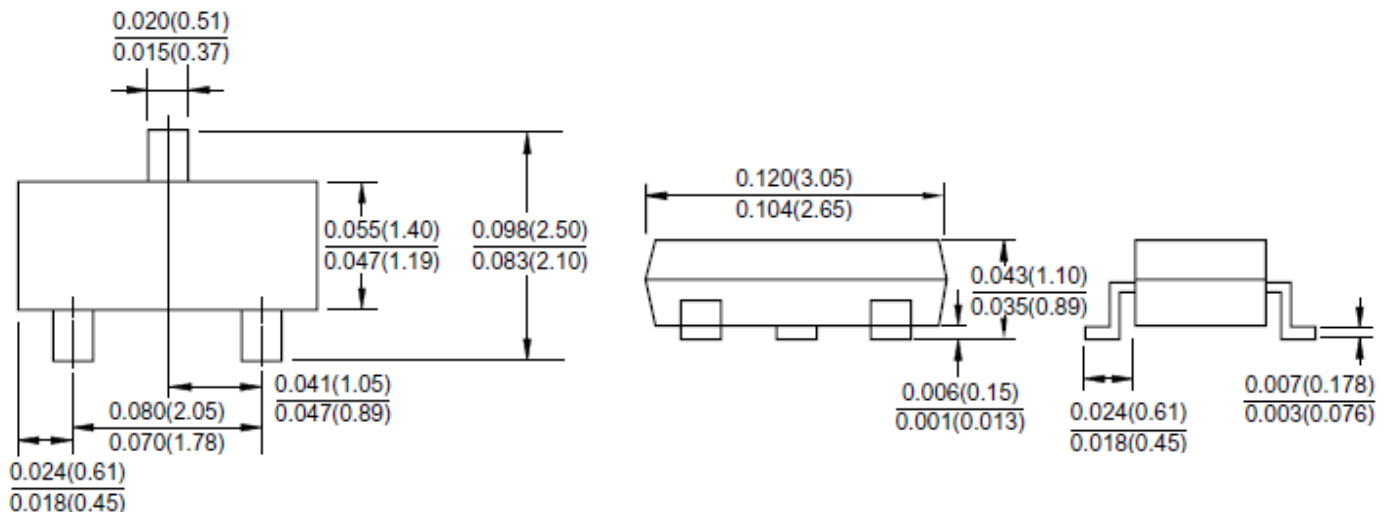
MMBD7000

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

Symbol	Description	Min.	Max.	Unit	Conditions
V_{BR}	Reverse Breakdown Voltage	100	-	V	I _R =100μA
I_R	Leakage Current	-	1.0	μA	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 =100Ω

Dimensions in inch (mm)

SOT-23



Dual Small Signal Switching Diode

MMBD7000

How to contact us:

US HEADQUARTERS

28040 WEST HARRISON PARKWAY, VALENCIA, CA 91355-4162
Tel: (800) TAITRON (800) 824-8766 (661) 257-6060
Fax: (800) TAITFAX (800) 824-8329 (661) 257-6415
Email: taitron@taitroncomponents.com
Http://www.taitroncomponents.com

TAITRON COMPONENTS MEXICO, S.A .DE C.V.

BOULEVARD CENTRAL 5000 INTERIOR 5 PARQUE INDUSTRIAL ATITALAQUIA, HIDALGO C.P. 42970
MEXICO
Tel: +52-55-5560-1519
Fax: +52-55-5560-2190

TAITRON COMPONENTS INCORPORATED REPRESENTAÇÕES DO BRASIL LTDA

RUA DOMINGOS DE MORAIS, 2777, 2.ANDAR, SALA 24 SAÚDE - SÃO PAULO-SP 04035-001 BRAZIL
Tel: +55-11-5574-7949
Fax: +55-11-5572-0052

TAITRON COMPONENTS INCORPORATED, SHANGHAI REPRESENTATIVE OFFICE

METROBANK PLAZA, 1160 WEST YAN' AN ROAD, SUITE 1503, SHANGHAI, 200052, CHINA
Tel: +86-21-5424-9942
Fax: +86-21-5424-9931