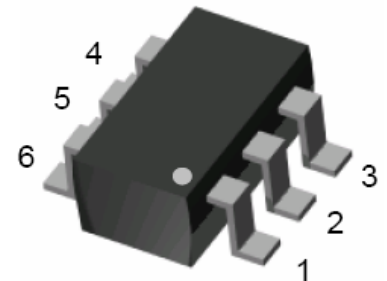


Multiple Terminals SMD Switching Diode

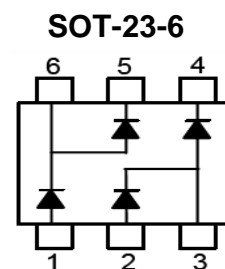
Features

- High reverse voltage rating
- Fast switching speed
- Low capacitance
- RoHS compliant



Mechanical Data

Case:	SOT-23-6, Plastic Case
Epoxy:	Plastic package has UL flammability classification 94V-0
Terminals:	Solderable per MIL-STD-202, Method 208
Weight:	Approx. 0.016 gram



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

Symbol	Description	MMBD3004BRM	Unit	Conditions
	Marking Code	B34		
V_{RM}	Continuous Reverse Voltage	300	V	
V_{RRM}	Repetitive Peak Reverse Voltage	350	V	
V_{RMS}	RMS Reverse Voltage	212	V	
I_{F(AV)}	Continuous Forward Current	225	mA	Note 1
I_{FRM}	Peak Repetitive Forward Current	625	mA	
I_{FSM}	Non-Repetitive Peak Forward Surge Current, t=1S, Square Wave	1.0	A	
P_D	Total Power Dissipation	350	mW	Note 1
R_{thJA}	Thermal Resistance Junction to Ambient	357	° C/W	Note 1
T_J, T_{STG}	Operating Junction and Storage Temperature Range	-55 to +150	°C	

Note: 1. FR-5 Board 1.0x0.75x0.062"

Multiple Terminals SMD Switching Diode

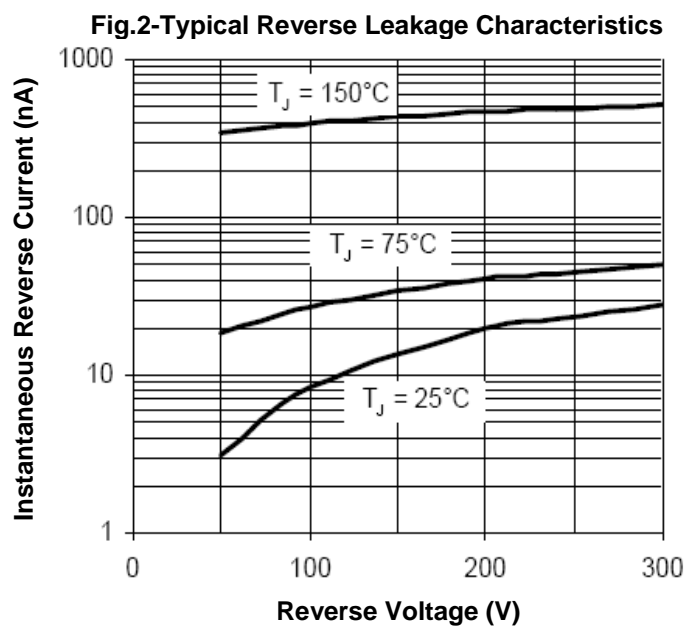
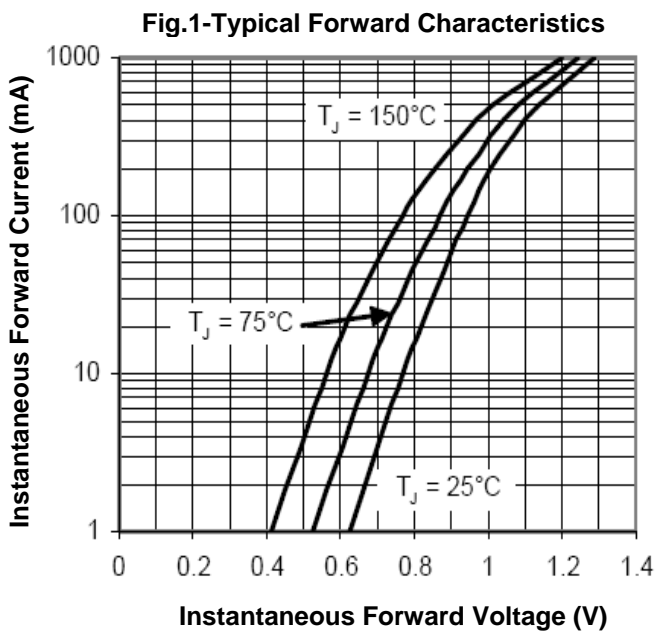
MMBD3004BRM

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

Symbol	Description	Min.	Typ.	Max.	Unit	Conditions
V_{BR}	Breakdown Voltage (Note 2)	350	-	-	V	I _{BR} =150μA
V_F	Forward Voltage (Note 2)	-	0.82	0.87	V	I _F =20mA
		-	0.95	1.0		I _F =100mA
		-	1.0	1.25		I _F =200mA
I_R	Reverse Leakage Current (Note 2)	-	0.02	0.1	μA	V _R =240V
		-	0.5	100		V _R =240V, T _J =150°C
C_J	Total Capacitance	-	1.7	5.0	pF	V _R =0V, f=1MHz
T_{rr}	Reverse Recovery Time	-	-	50	ns	I _F =I _R =30mA, I _{RR} =3mA, R _L =100Ω

Note: 2.Short duration pulse test to avoid self-heating effect

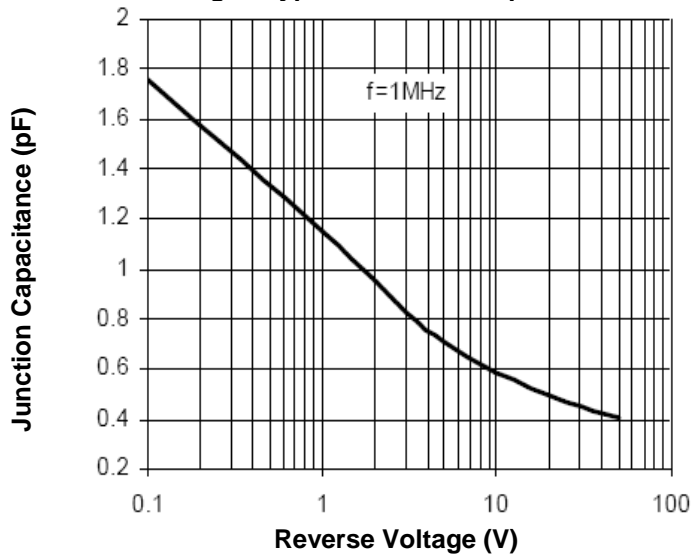
Typical Characteristics Curves



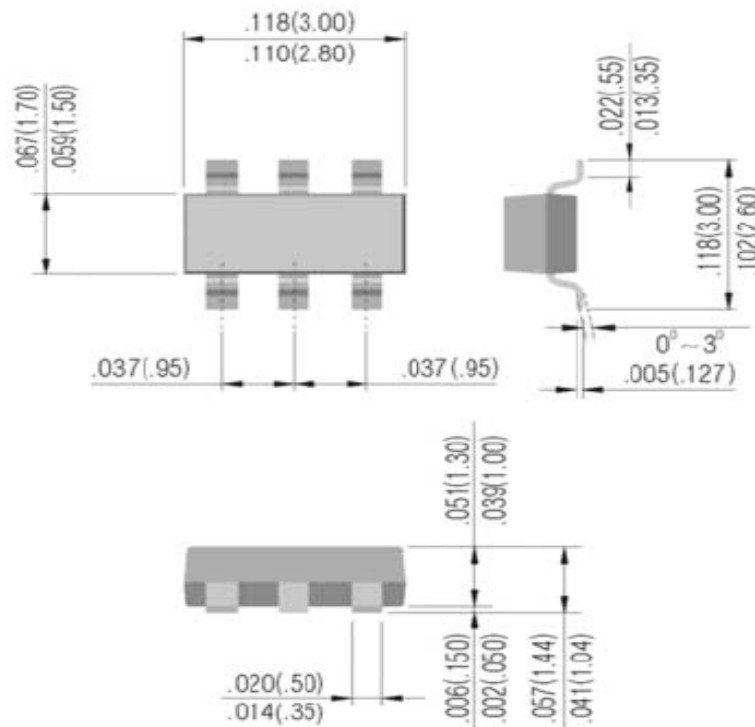
Multiple Terminals SMD Switching Diode

MMBD3004BRM

Fig.3- Typical Junction Capacitance



Dimensions in inch (mm)



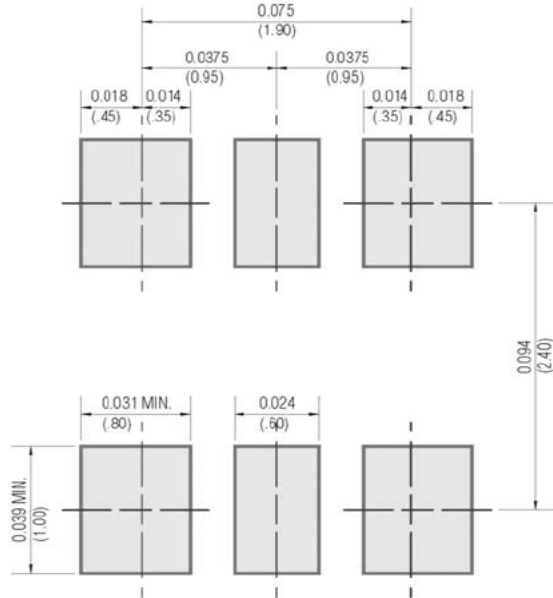
SOT-23-6

TAITRON
components incorporated

Multiple Terminals SMD Switching Diode

MMBD3004BRM

Mounting Pad Layout in inch (mm)



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