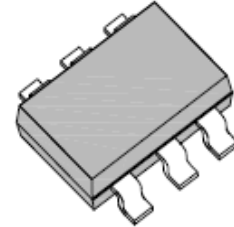


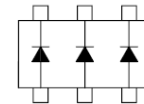
Multiple Terminals SMD Switching Diode

Features

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- High Conductance
- RoHS compliant



SOT-363



Mechanical Data

Case:	SOT-363, Plastic Case
Terminals:	Solderable per MIL-STD-750, Method 2026
Weight:	Approx. 0.006 gram

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

Symbol	Description	BAS16TWS MMBD4148TWS	Unit	Conditions
	Marking Code	16T		
V_{RM}	Reverse Voltage	75	V	
V_{RRM}	Peak Reverse Voltage	100	V	
I_{F(AV)}	Forward Average Current	150	mA	Half wave rectification with resistive load and $f \geq 50\text{Hz}$
I_{FSM}	Peak Forward Surge Current, Pulse Width=1.0us	4.0	A	
P_D	Power Dissipation Derate above 25°C	200	mW	
V_F	Max. Forward Voltage	0.715	V	IF=1mA
		0.855		IF=10mA
		1.0		IF=50mA
		1.25		IF=150mA
I_R	Max. DC Reverse Current at Rated DC Blocking Voltage $T_j=25^{\circ}C$	0.03	μA	VR=25V
		2.5		VR=75V
C_J	Junction Capacitance	1.5	pF	VR=0V, f=1MHz
T_{rr}	Max. Reverse Recovery Time	4.0	ns	IF=10mA, IR=1mA, VR=6V, RL=100Ω
R_{thJA}	Max. Thermal Resistance	625	° C/W	
T_J	Storage Temperature Range	-55 to +150	° C	

Multiple Terminals SMD Switching Diode

BAS16TWS / MMBD4148TWS

Typical Characteristics Curves

Fig.1- Forward Power Dissipation Derating Curve

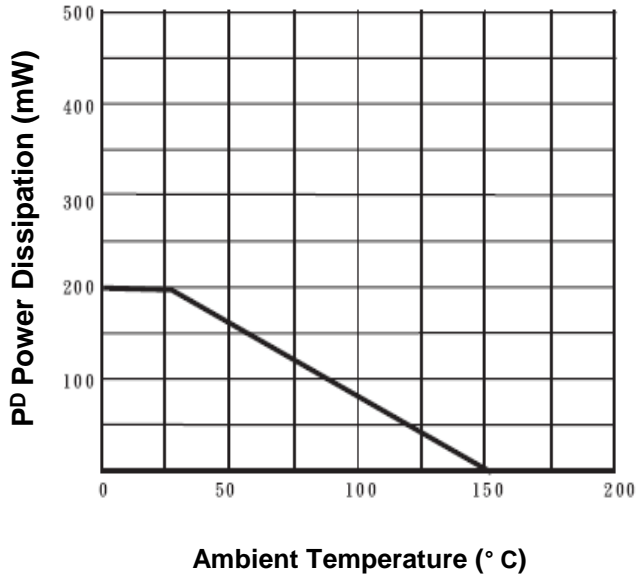


Fig.2- Typical Instantaneous Forward Characteristics

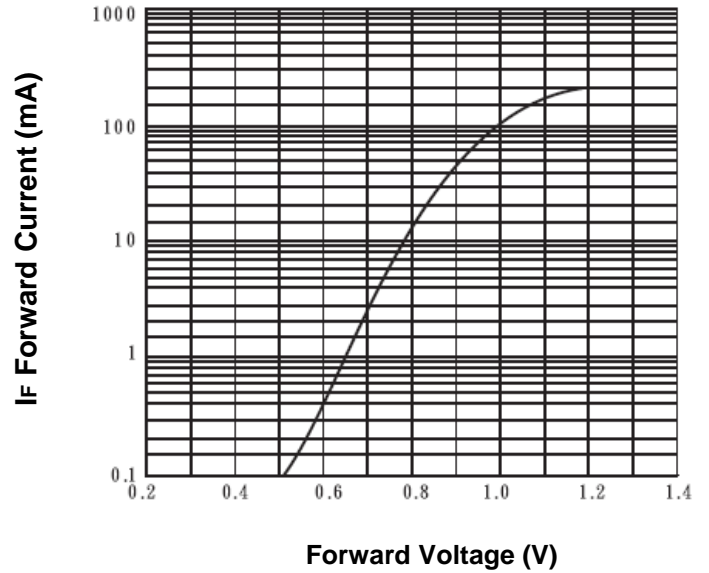
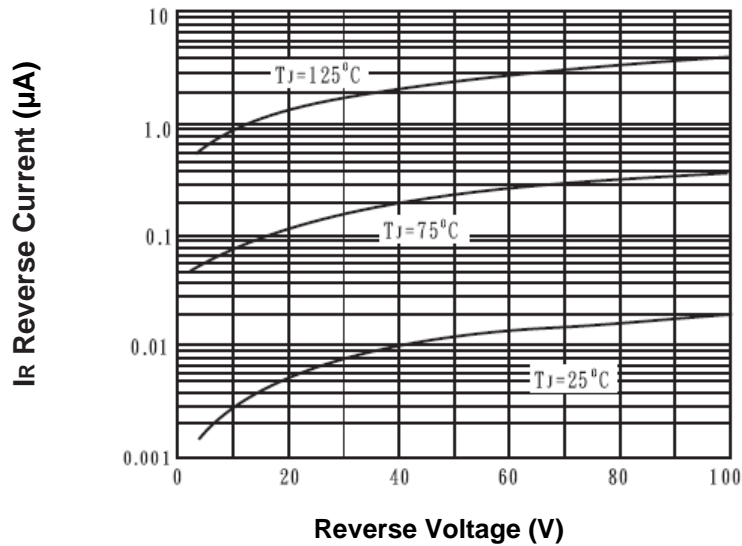


Fig.3- Typical Instantaneous Reverse Characteristics

Fig.1- Forward Current Derating Curve

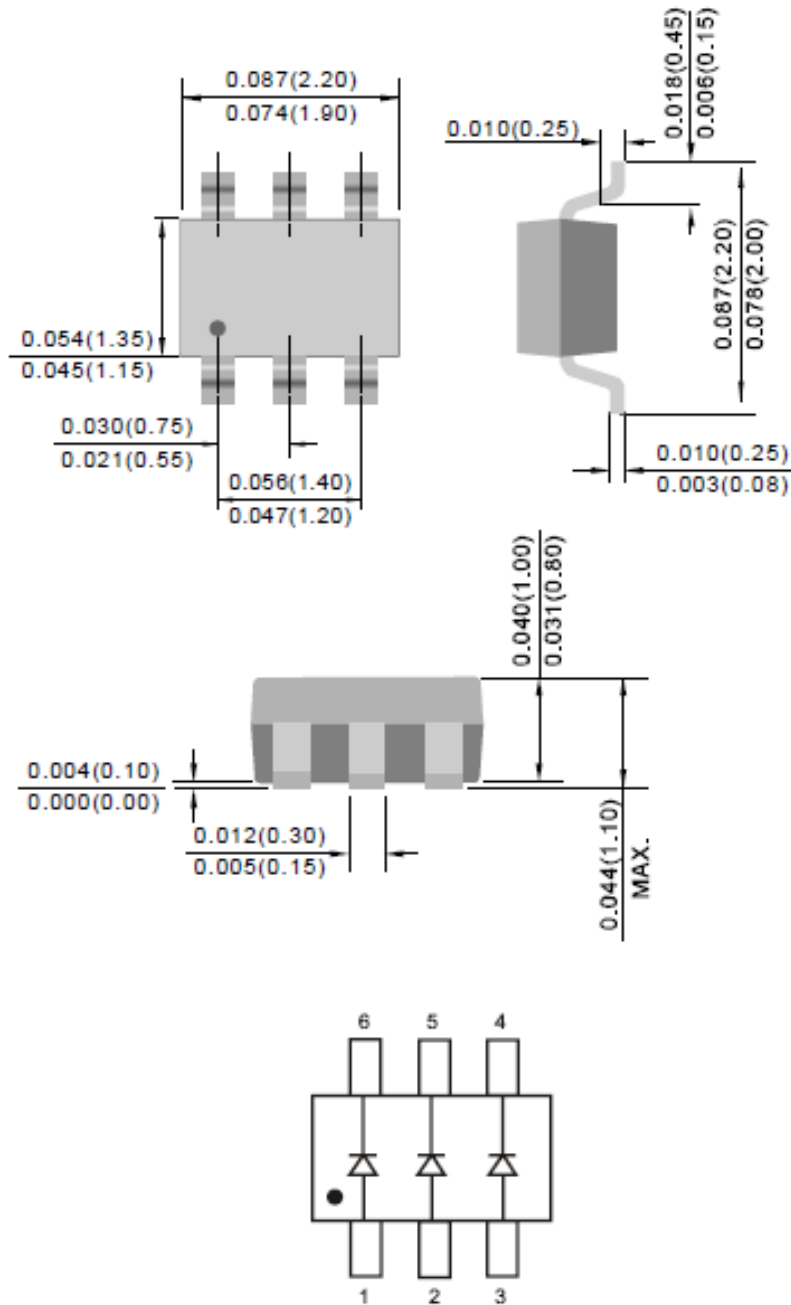


Multiple Terminals SMD Switching Diode

BAS16TWS / MMBD4148TWS

Dimensions in inch (mm)

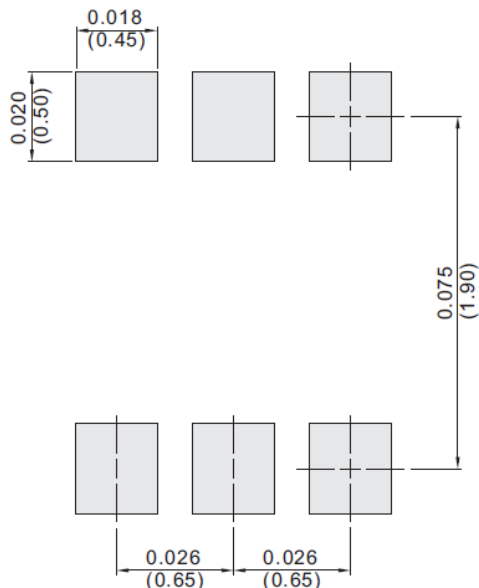
SOT-363



Multiple Terminals SMD Switching Diode

BAS16TWS / MMBD4148TWS

Mounting Pad Layout in inch (mm)



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