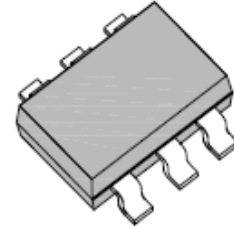


Multiple Terminals SMD Switching Diode

Features

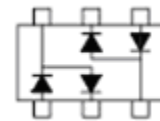
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- High Conductance
- RoHS compliant



SOT-363

Mechanical Data

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

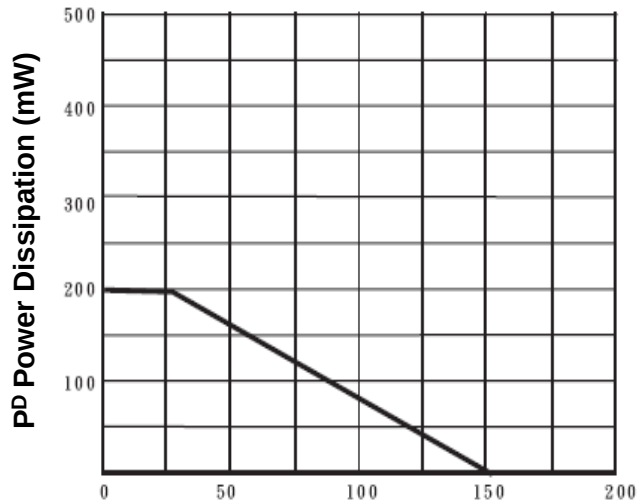


Maximum Ratings & Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	BAV99DWS MMBD4148SDWS	Unit	Conditions
	Marking Code	JB		
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	I _F =1mA
		0.855		I _F =10mA
		1.0		I _F =50mA
		1.25		I _F =150mA
I_R	Max. DC Reverse Current at Rated DC Blocking Voltage T _j =25° C	0.03	μA	V _R =25V
		2.5		V _R =75V
C_J	Junction Capacitance	1.5	pF	V _R =0V, f=1MHz
T_{rr}	Max. Reverse Recovery Time	4.0	ns	I _F =10mA, I _R =1mA, V _R =6V, R _L =100Ω
R_{thJA}	Max. Thermal Resistance	625	° C/W	
T_J	Storage Temperature Range	-55 to +150	° C	

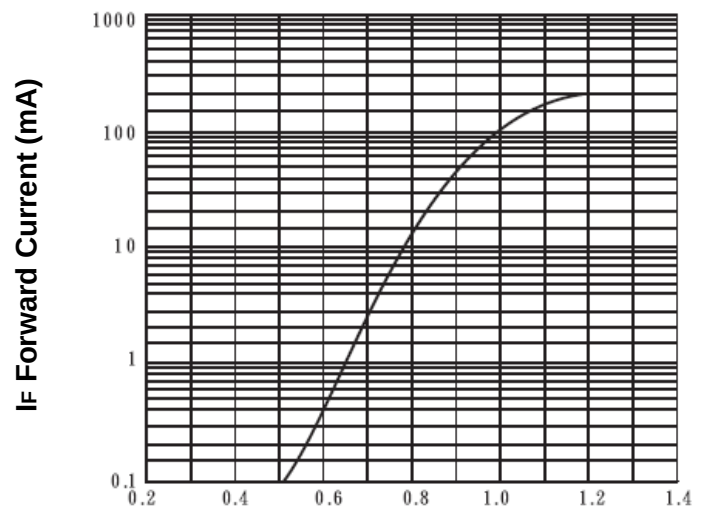
Typical Characteristics Curves

Fig.1- Forward Power Dissipation Derating Curve



Ambient Temperature (°C)

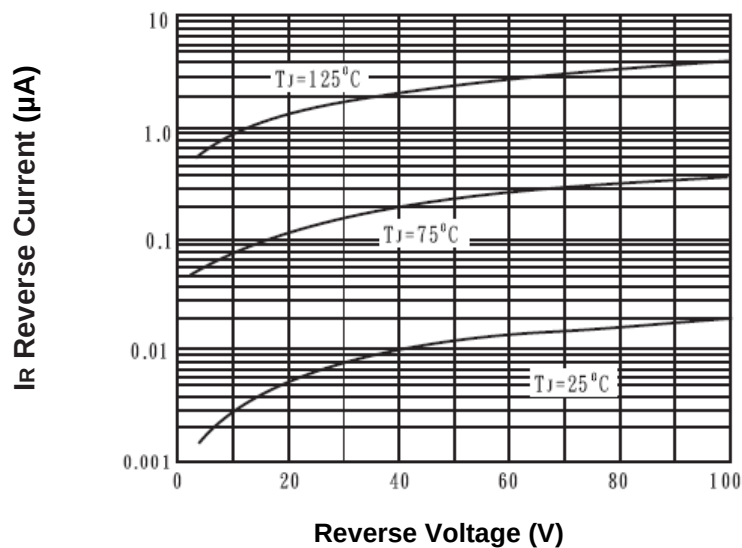
Fig.2- Typical Instantaneous Forward Characteristics



Forward Voltage (V)

Fig.3- Typical Instantaneous Reverse Characteristics

Fig.1- Forward Current Derating Curve



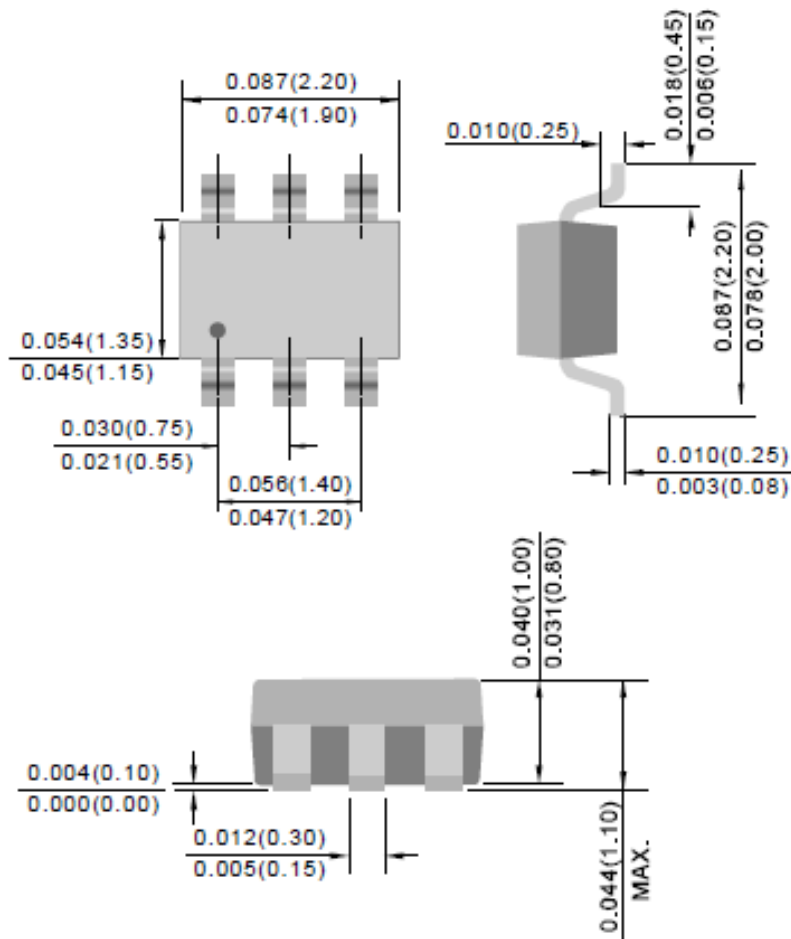
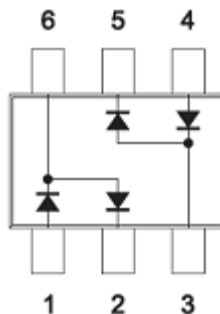
Reverse Voltage (V)

Multiple Terminals SMD Switching Diode

BAV99DWS / MMBD4148SDWS

Dimensions in inch (mm)

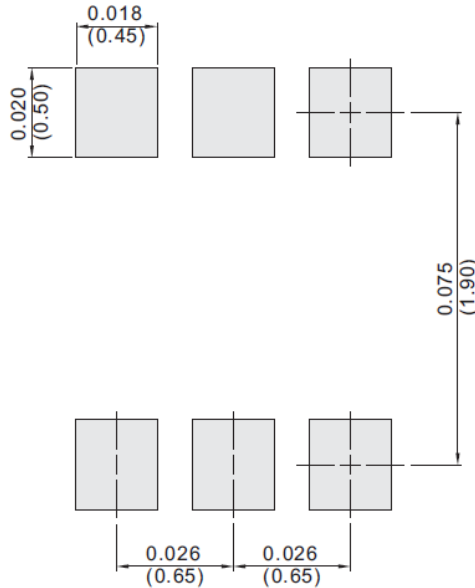
SOT-363



Multiple Terminals SMD Switching Diode

BAV99DWS / MMBD4148SDWS

Mounting Pad Layout in inch (mm)



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