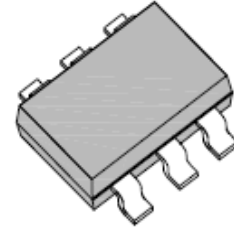


## Multiple Terminals SMD Switching Diode

### Features

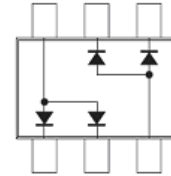
- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- High Conductance
- RoHS compliant



SOT-363

### Mechanical Data

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



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

Symbol	Description	BAW56DWS MMBD4148ADWS	Unit	Conditions
	Marking Code	JC		
<b>V<sub>RM</sub></b>	Reverse Voltage	75	V	
<b>V<sub>RRM</sub></b>	Peak Reverse Voltage	100	V	
<b>I<sub>F(AV)</sub></b>	Forward Average Current	150	mA	Half wave rectification with resistive load and $f \geq 50\text{Hz}$
<b>I<sub>FSM</sub></b>	Peak Forward Surge Current, Pulse Width=1.0us	4.0	A	
<b>P<sub>D</sub></b>	Power Dissipation Derate above 25°C	200	mW	
<b>V<sub>F</sub></b>	Max. Forward Voltage	0.715	V	IF=1mA
		0.855		IF=10mA
		1.0		IF=50mA
		1.25		IF=150mA
<b>I<sub>R</sub></b>	Max. DC Reverse Current at Rated DC Blocking Voltage $T_j=25^{\circ}C$	0.03	μA	VR=25V
		2.5		VR=75V
<b>C<sub>J</sub></b>	Junction Capacitance	1.5	pF	VR=0V, f=1MHz
<b>T<sub>rr</sub></b>	Max. Reverse Recovery Time	4.0	ns	IF=10mA, IR=1mA, VR=6V, RL=100Ω
<b>R<sub>thJA</sub></b>	Max. Thermal Resistance	625	° C/W	
<b>T<sub>J</sub></b>	Storage Temperature Range	-55 to +150	° C	

# Multiple Terminals SMD Switching Diode

## BAW56DWS / MMBD4148ADWS

### Typical Characteristics Curves

Fig.1- Forward Power Dissipation Derating Curve

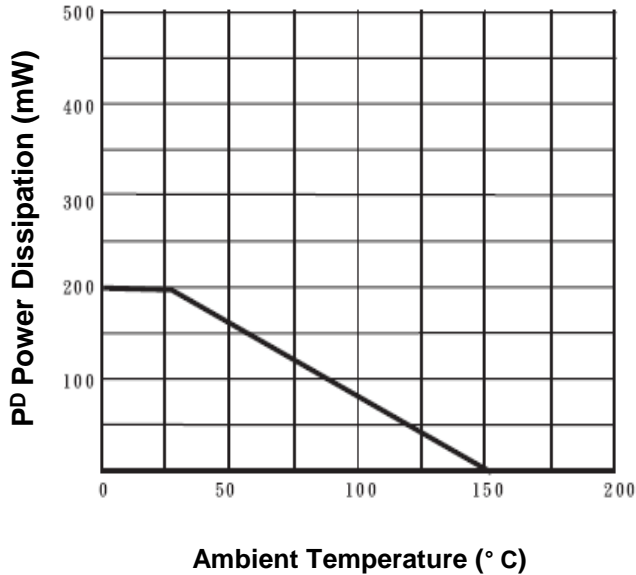


Fig.2- Typical Instantaneous Forward Characteristics

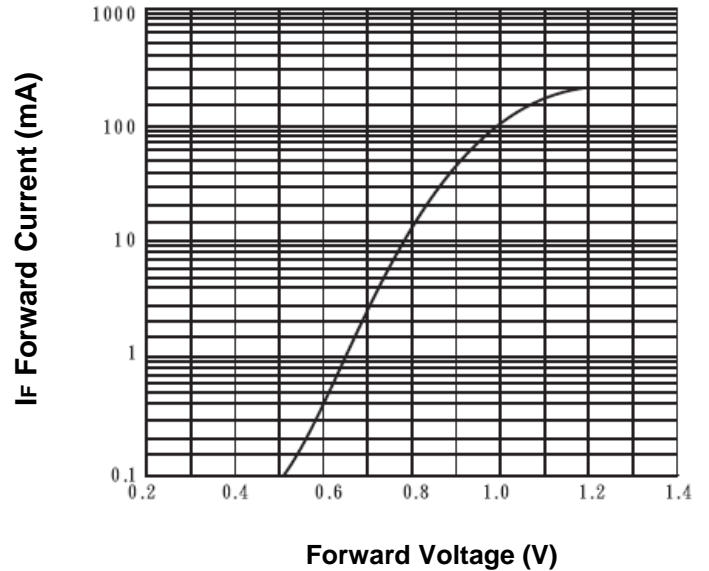
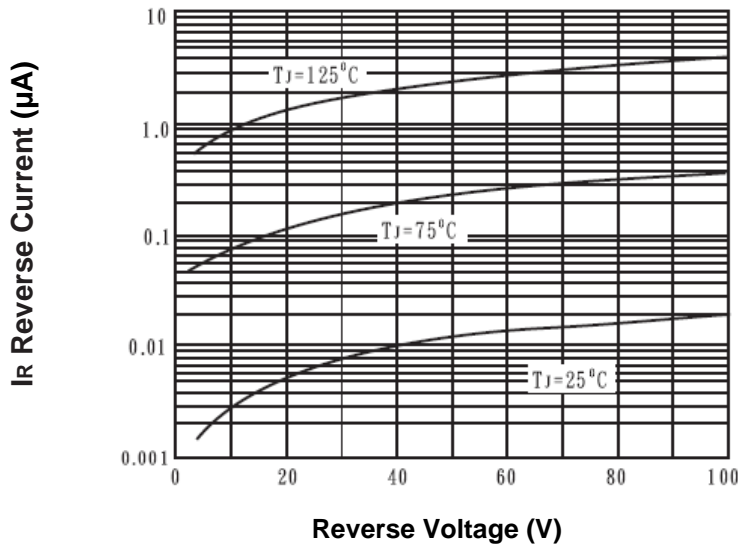


Fig.3- Typical Instantaneous Reverse Characteristics

Fig.1- Forward Current Derating Curve

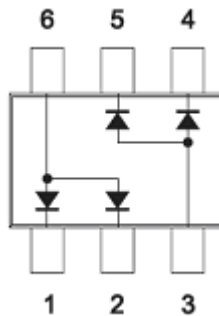
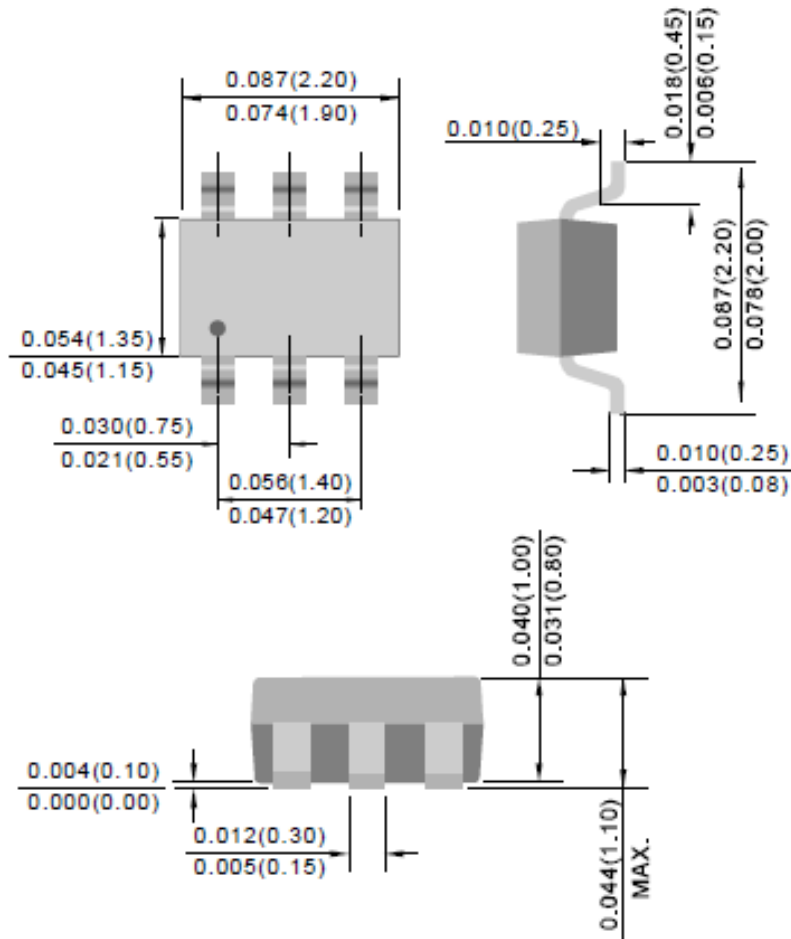


# Multiple Terminals SMD Switching Diode

## BAW56DWS / MMBD4148ADWS

Dimensions in inch (mm)

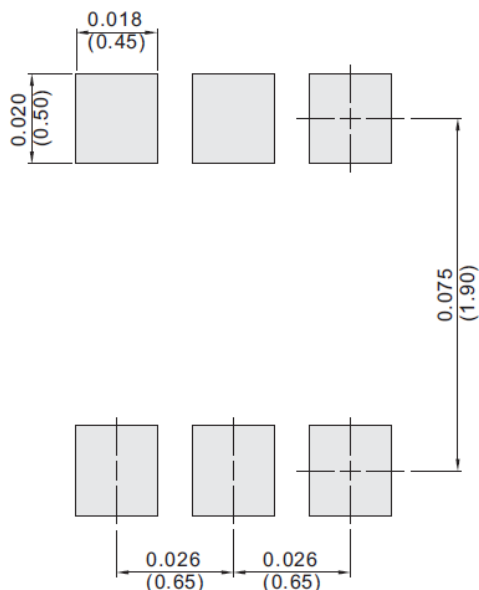
SOT-363



# Multiple Terminals SMD Switching Diode

## BAW56DWS / MMBD4148ADWS

### Mounting Pad Layout in inch (mm)



### 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](mailto:taitron@taitroncomponents.com)

Http://[www.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 TAIWAN, TAIPEI

5F-2, NO. 77, SEC. 1, HSIN TAI WU ROAD, HSI-CHIH, TAIPEI HSIEN, TAIWAN R.O.C.

Tel: 886-2-2698-8878

Fax: 886-2-2698-8879

#### TAITRON COMPONETS 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