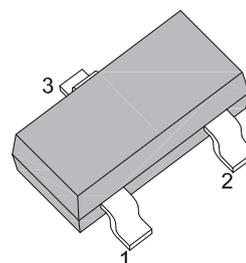


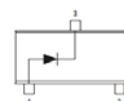
## Three Terminals SMD Switching Diodes

### Features

- Fast Switching Speed
- High Conductance
- Electrically Identical to Standard JEDEC
- RoHS compliant



**SOT-23**



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

Symbol	Description		MMBD4148	MMBD4448	Unit	Conditions
<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		200		mA	
<b>I<sub>FSM</sub></b>	Peak Forward Surge Current, Pulse Width=1.0μs		2.0		A	
<b>P<sub>D</sub></b>	Power Dissipation above 25°C		350		mW	
<b>V<sub>F</sub></b>	Forward Voltage	Min	---	0.62 @ 5mA	V	
		Max	1.0 @ 10mA	0.72 @ 5mA		
				1.0 @ 100mA		
<b>I<sub>R</sub></b>	Max. Reverse Current		0.025	0.025	μA	V <sub>R</sub> =20V
			5.0	2.5		V <sub>R</sub> =75V
<b>C<sub>D</sub></b>	Diode Capacitance		4.0		pF	V <sub>R</sub> =0V, f=1MHz
<b>T<sub>rr</sub></b>	Reverse Recovery Time		4.0		ns	I <sub>F</sub> =10mA, I <sub>R</sub> =1mA, V <sub>R</sub> =6V, R <sub>L</sub> =100Ω
<b>T<sub>J</sub>, T<sub>STG</sub></b>	Operating Junction and Storage Temperature Range		-55 to +150		°C	

## Typical Characteristics Curves

Fig.1- Forward Power Dissipation Derating Curve

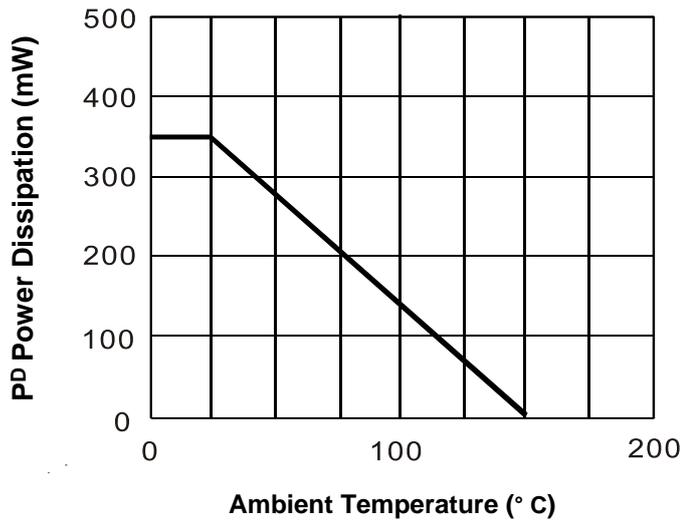


Fig.2- Typical Instantaneous Forward Characteristics

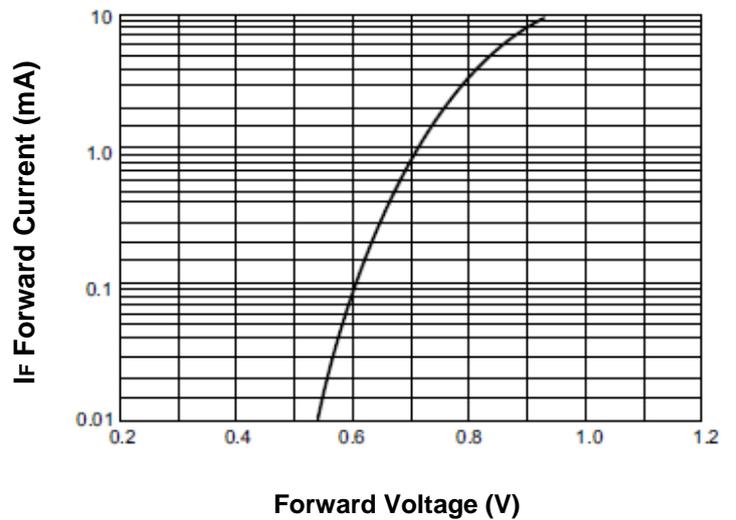


Fig.3- Junction Capacitance

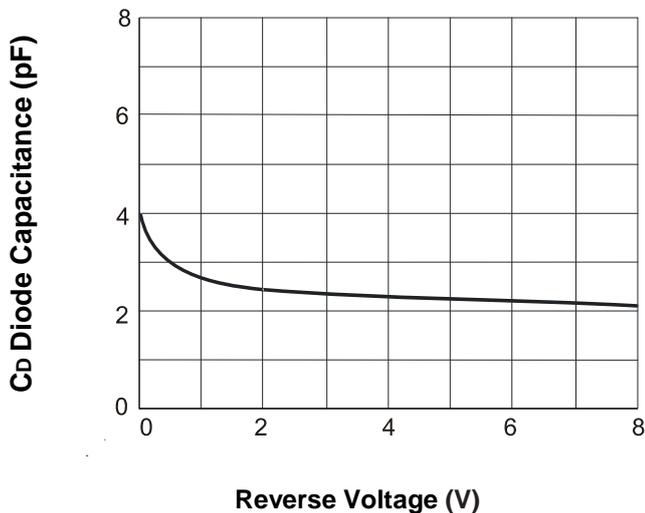
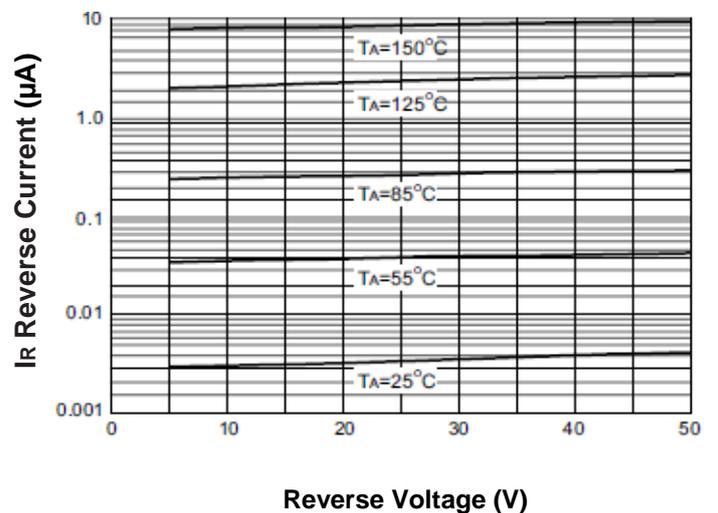
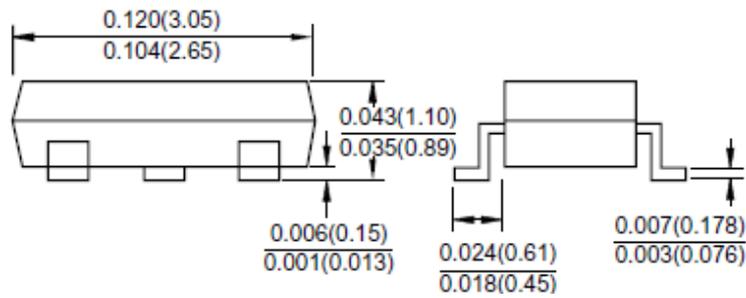
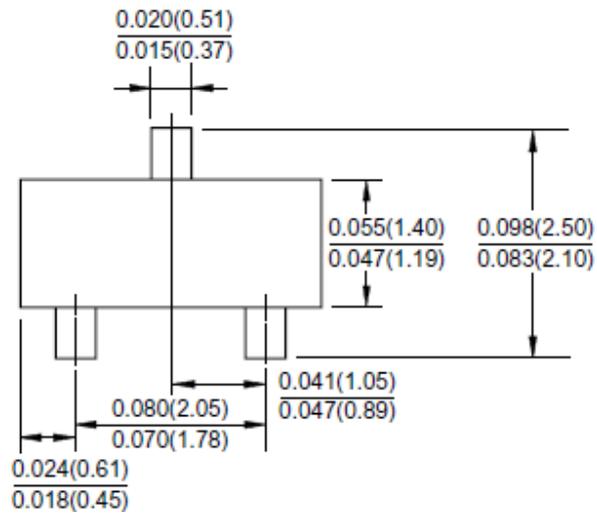


Fig.4- Typical Instantaneous Reverse Characteristics



## Dimensions in inch (mm)

### SOT-23



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