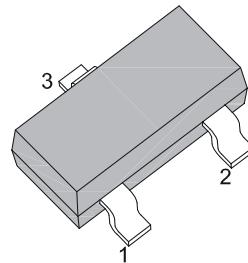


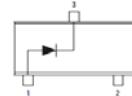
## Three Terminals SMD Switching Diodes

### Features

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



SOT-23

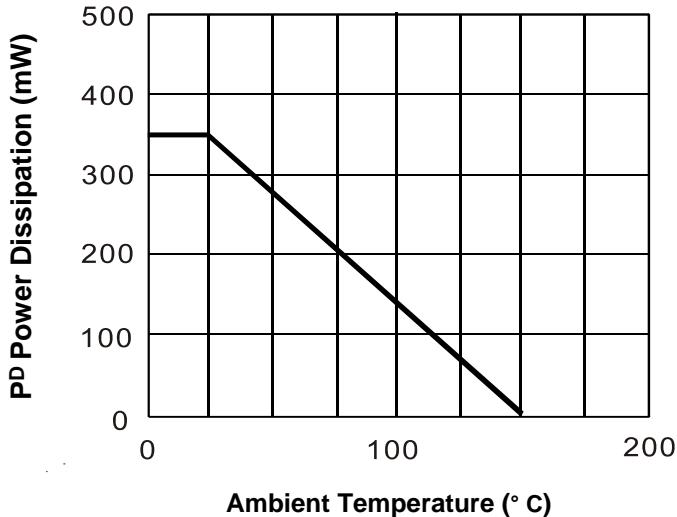


### Maximum Ratings & Electrical Characteristics ( $T_{Ambient}=25^{\circ}\text{C}$ unless noted otherwise)

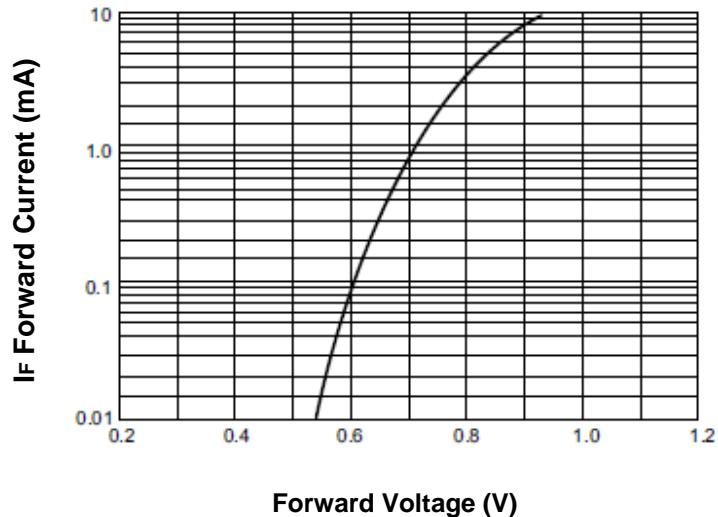
Symbol	Description		MMBD4148	MMBD4448	Unit	Conditions	
<b>V<sub>RM</sub></b>	Reverse Voltage		75		V		
<b>V<sub>RPM</sub></b>	Peak Reverse Voltage		100		V		
<b>I<sub>F(AV)</sub></b>	Forward Average Current		200		mA		
<b>I<sub>FSM</sub></b>	Peak Forward Surge Current, Pulse Width=1.0μs		2.0		A		
<b>P<sub>D</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	VR=20V	
			5.0	2.5		VR=75V	
<b>C<sub>D</sub></b>	Diode Capacitance		4.0		pF	VR=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, VR=6V,RL=100Ω	
<b>T<sub>J,T<sub>STG</sub></sub></b>	Operating Junction and Storage Temperature Range		-55 to +150		° C		

## Typical Characteristics Curves

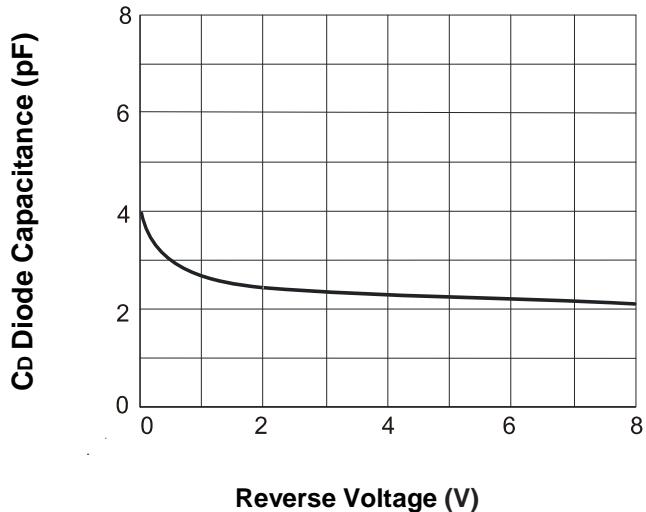
**Fig.1- Forward Power Dissipation Derating Curve**



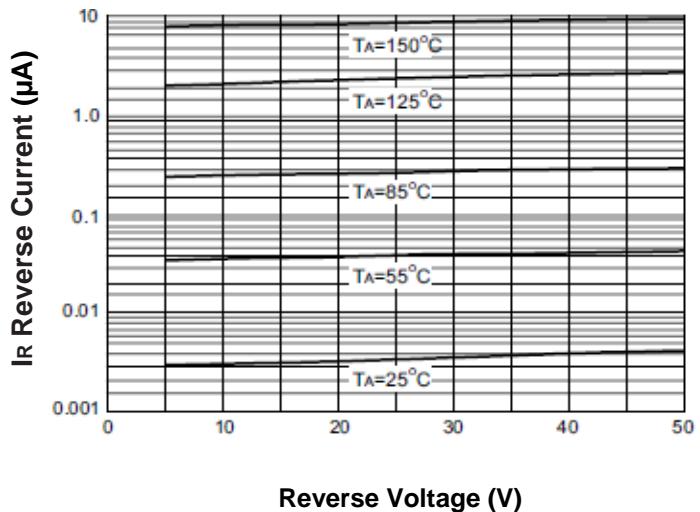
**Fig.2- Typical Instantaneous Forward Characteristics**



**Fig.3- Junction Capacitance**



**Fig.4- Typical Instantaneous Reverse Characteristics**



**Dimensions in inch (mm)****SOT-23**