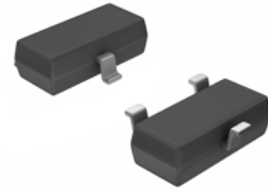


## SOT-23 Plastic-Encapsulate Diodes

### MMBD4148A/SE/CC/CA SWITCHING DIODES

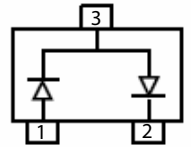
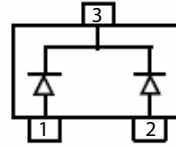
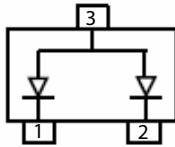
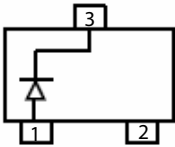
SOT-23



#### FEATURES

Power Dissipation

PD : 350 mW (Tamb=25°C)



#### MARKING:

MMBD4148A:5H

MMBD4148CA :D6

MMBD4148CC :D5

MBD4148SE :D4

#### Maximum Ratings @T<sub>A</sub>=25

Parameter	Symbol	Limits	Unit
Peak Repetitive Peak reverse voltage	V <sub>RRM</sub>	100	V
Working Peak Reverse Voltage	V <sub>RWM</sub>		
DC Blocking Voltage	V <sub>R</sub>		
Forward Continuous Current	I <sub>FM</sub>	200	mA
Power Dissipation	Pd	350	mW
Storage temperature	T <sub>STG</sub>	-55-150	°C

#### Electrical Characteristics@T<sub>A</sub>=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	V <sub>(BR)R1</sub>	100			V	I <sub>R</sub> =100μA
	V <sub>(BR)R2</sub>	75			V	I <sub>R</sub> =5μA
Forward voltage	V <sub>F</sub>			1	V	I <sub>F</sub> =10mA
Reverse current	I <sub>R1</sub>			25	nA	V <sub>R</sub> =25V
	I <sub>R2</sub>			5	uA	V <sub>R</sub> =75V
Diode Capacitance	C <sub>D</sub>			4	pF	V <sub>R</sub> =0V,f=1MHz
Reverse Recovery Time	t <sub>rr</sub>			4	nS	I <sub>F</sub> =10mA,V <sub>R</sub> =6V I <sub>rr</sub> =0.1X I <sub>R</sub> ,R <sub>L</sub> =100Ω

# Typical Characteristics

# MMBD4148A/SE/CC/CA

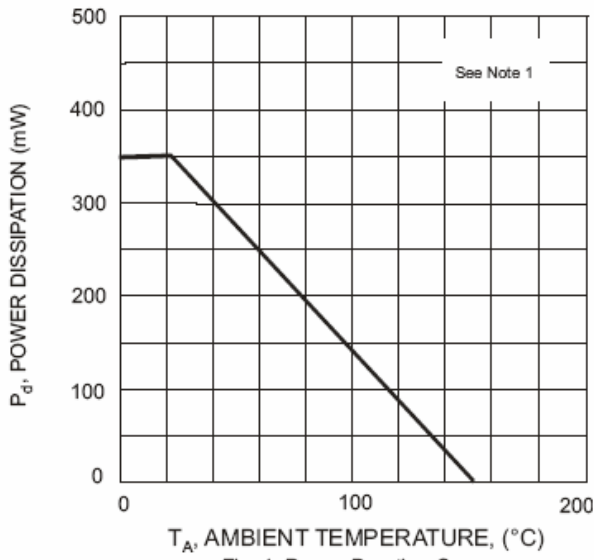


Fig. 1 Power Derating Curve

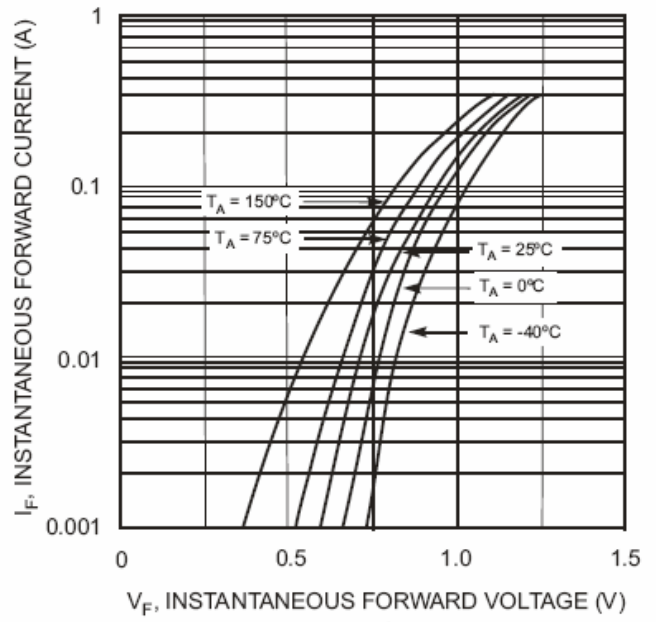


Fig. 2 Forward Characteristics

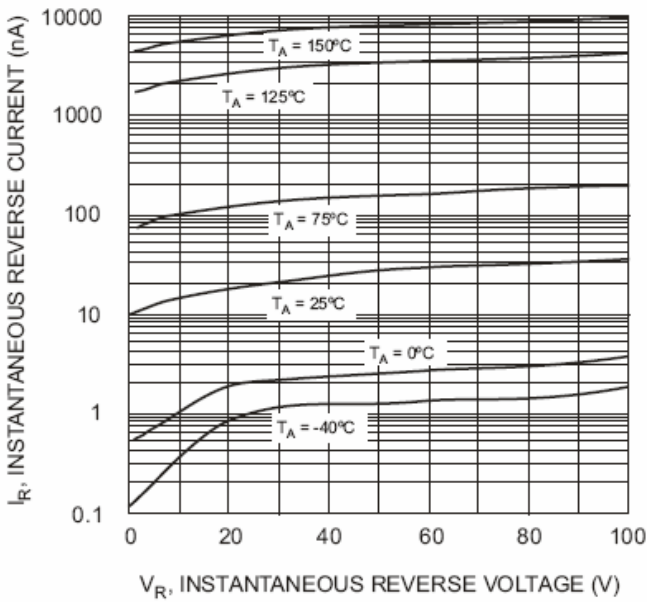


Fig. 3 Typical Reverse Characteristics

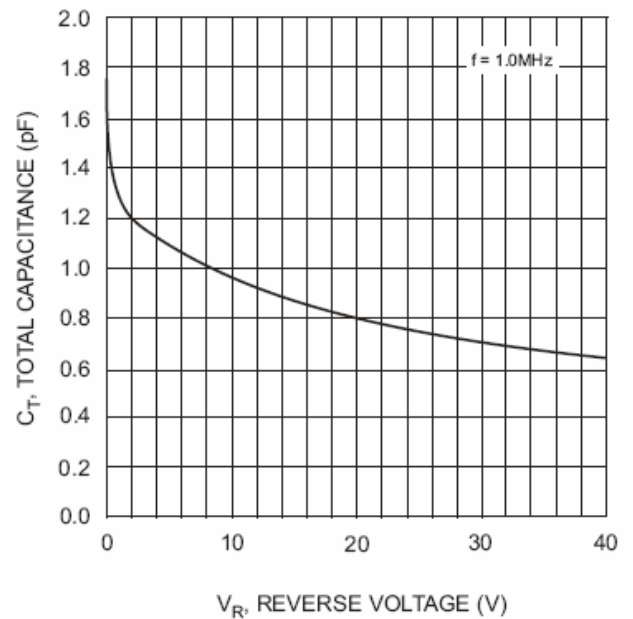


Fig. 4 Typical Capacitance vs. Reverse Voltage