

SOT-23 Plastic-Encapsulate Diodes

MMBD4148A/SE/CC/CA SWITCHING DIODES

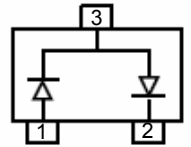
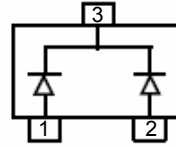
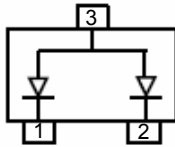
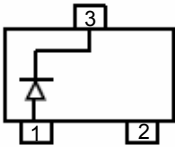
SOT-23



FEATURES

Power Dissipation

PD : 350 mW (Tamb=25°C)



MARKING:

MMBD4148A:5H

MMBD4148CA :D6

MMBD4148CC :D5

MBD4148SE :D4

Maximum Ratings @T_A=25

Parameter	Symbol	Limits	Unit
Peak Repetitive Peak reverse voltage	V _{RRM}	100	V
Working Peak Reverse Voltage	V _{RWM}		
DC Blocking Voltage	V _R		
Forward Continuous Current	I _{FM}	200	mA
Power Dissipation	P _d	350	mW
Storage temperature	T _{STG}	-55-150	°C

Electrical Characteristics @T_A=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	V _{(BR)R1}	100			V	I _R =100μA
	V _{(BR)R2}	75			V	I _R =5μA
Forward voltage	V _F			1	V	I _F =10mA
Reverse current	I _{R1}			25	nA	V _R =25V
	I _{R2}			5	uA	V _R =75V
Diode Capacitance	C _D			4	pF	V _R =0V, f=1MHz
Reverse Recovery Time	t _{rr}			4	nS	I _F =10mA, V _R =6V I _{rr} =0.1I _R , R _L =100Ω

Typical Characteristics

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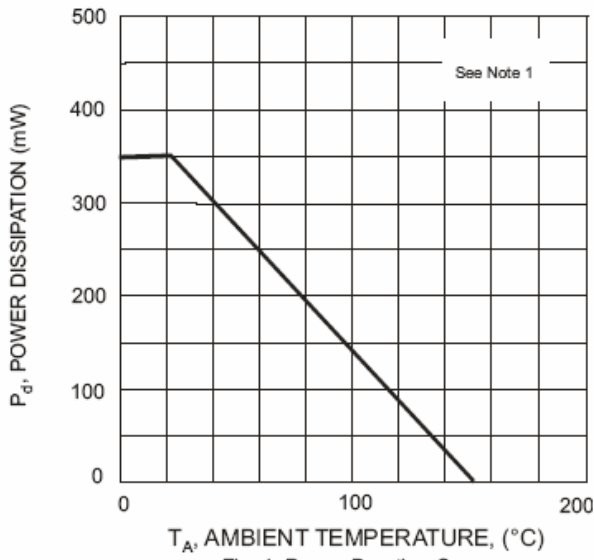


Fig. 1 Power Derating Curve

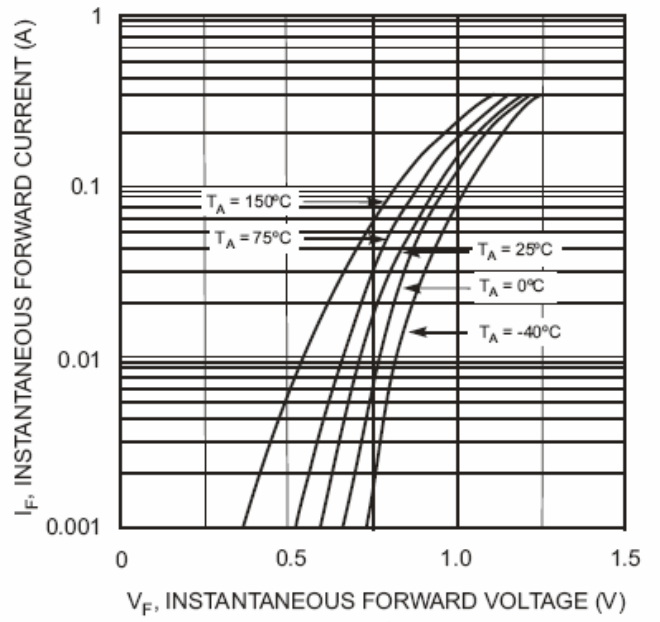


Fig. 2 Forward Characteristics

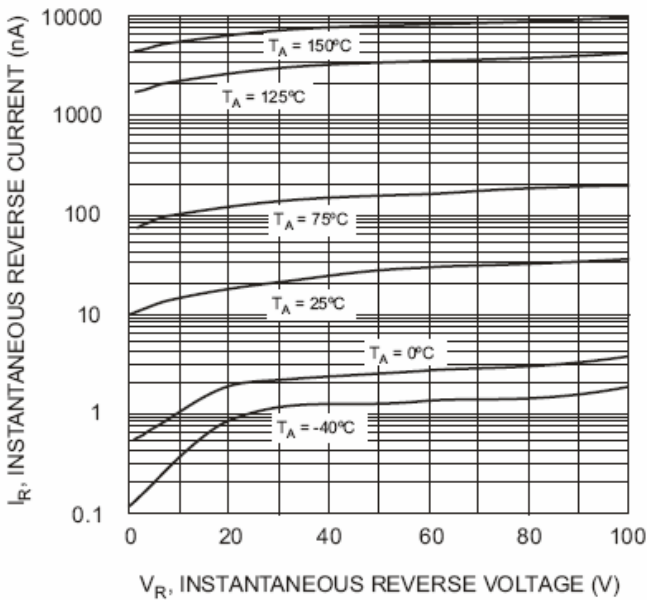


Fig. 3 Typical Reverse Characteristics

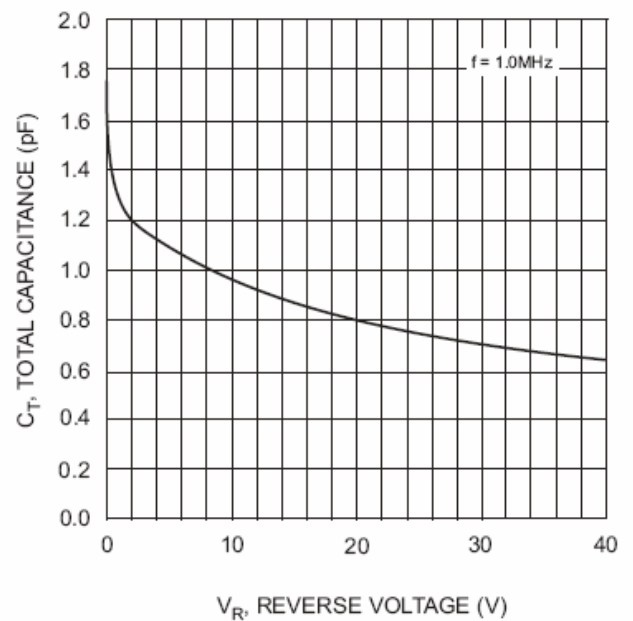


Fig. 4 Typical Capacitance vs. Reverse Voltage