

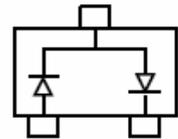
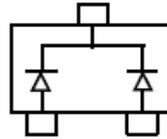
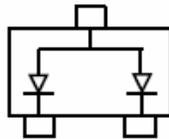
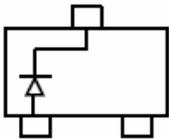
MMBD4148A/SE/CC/CA SWITCHING DIODES

SOT-23



FEATURES

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance



MARKING:

MMBD4148A:5H

MMBD4148CA :D6

MMBD4148CC :D5

MBD4148SE :D4

Maximum Ratings @T_A=25°C

Parameter	Symbol	Limits	Unit
Non-Repetitive Peak reverse voltage	V _{RM}	100	V
Peak Repetitive Peak reverse voltage	V _{RRM}	100	V
Working Peak Reverse Voltage	V _{RWM}		
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{R(RMS)}	53	V
Forward Continuous Current	I _{FM}	300	mA
Average Rectified Output Current	I _O	200	mA
Peak forward surge current @=1.0μs @=1.0s	I _{FSM}	2.0 1.0	A
Power Dissipation	P _D	350	mW
Thermal Resistance Junction to Ambient	R _{θJA}	357	°C/W
Junction temperature	T _J	150	°C
Storage temperature	T _{STG}	-65~+150	°C

Electrical Ratings @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}			5	μA	V _R =75V
	I _{R2}			25	nA	V _R =25V
Capacitance between terminals	C _T			4	pF	V _R =0V, f=1MHz
Reverse Recovery Time	t _{rr}			4	ns	I _F =I _R =10mA, V _R =6V, I _{rr} =0.1X I _R , R _L =100Ω

Typical Characteristics

MMBD4148A/SE/CC/CA

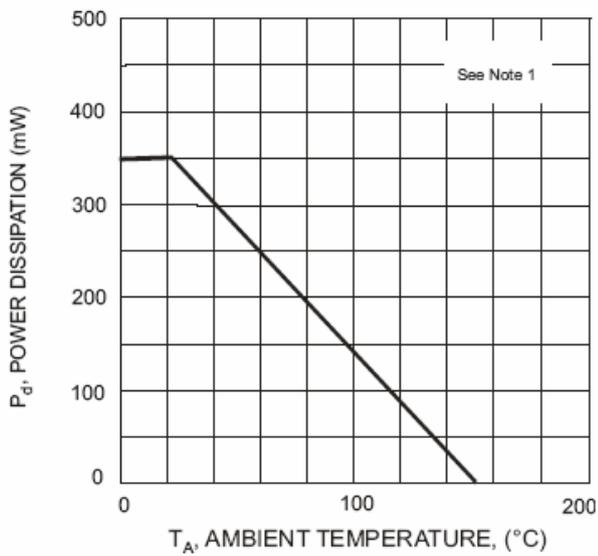


Fig. 1 Power Derating Curve

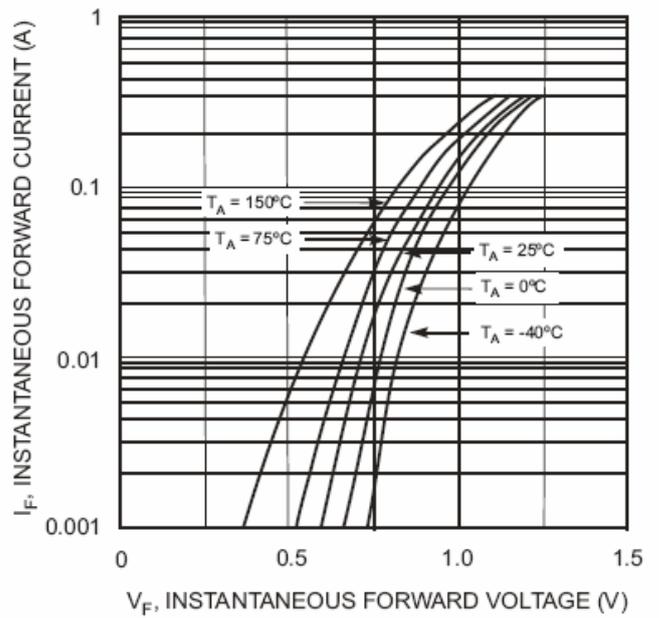


Fig. 2 Forward Characteristics

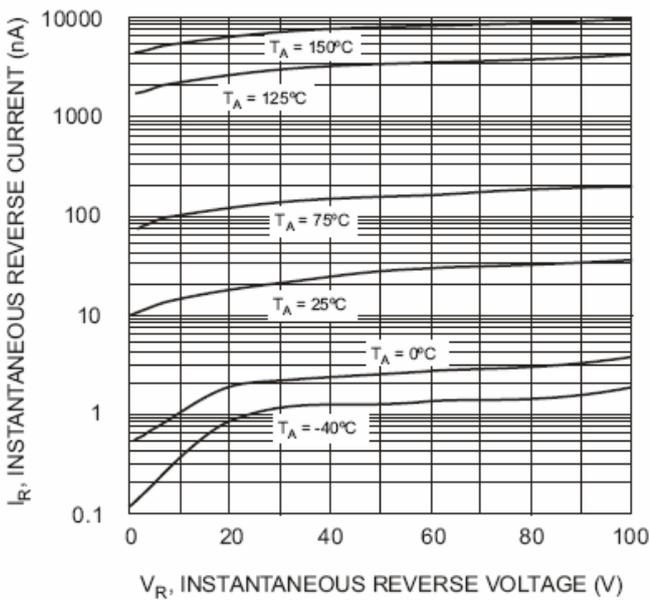


Fig. 3 Typical Reverse Characteristics

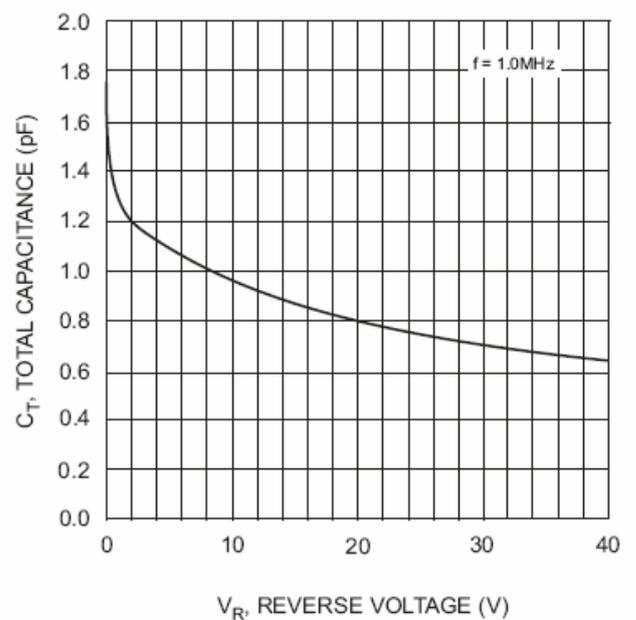


Fig. 4 Typical Capacitance vs. Reverse Voltage