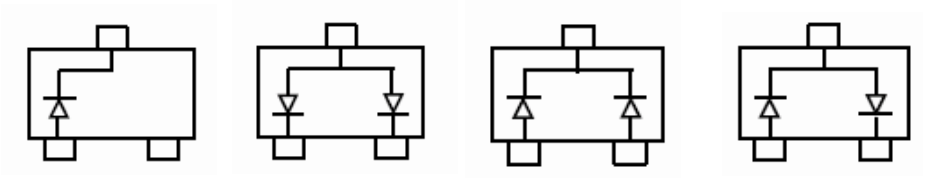
SCHOTTKY DIODES

MMBD4148A/CA/CC/SE

FEATURES

Fast Switching Speed
For General Purpose Switching Applications
High Conductance

MARKING



MMBD4148A:5H　MMBD4148CA:D6　MMBD4148CC:D5　MMBD4148SE:D4

MAXIMUM RATINGS (TA=25℃ unless otherwise noted)

Paramet	Symbol	Limits	Unit
Non-Repetitive Peak reverse voltage	V_{RM}	100	V
Peak Repetitive Peak reverse voltage Working Peak Reverse Voltage	V_{RRM} V_{RWM}	100	V
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 @=1.0	I	2.0 1.0	A
Power Dissipation	P_D	350	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	357	℃/W
Junction temperature	T_j	150	℃
Storage temperature	T_{STG}	-65~+150	℃

Electrical Ratings @TA=25℃

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,Irr=0.1XI_R,R_L=100Ω

MMBD4148A/CA/CC/SE Typical Characteristics

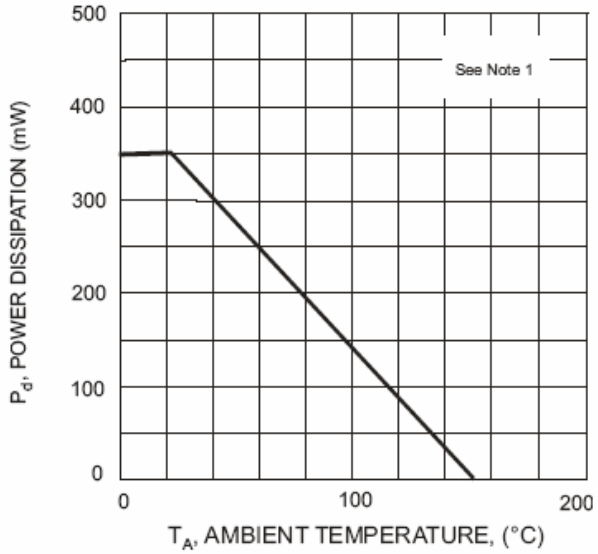


Fig. 1 Power Derating Curve

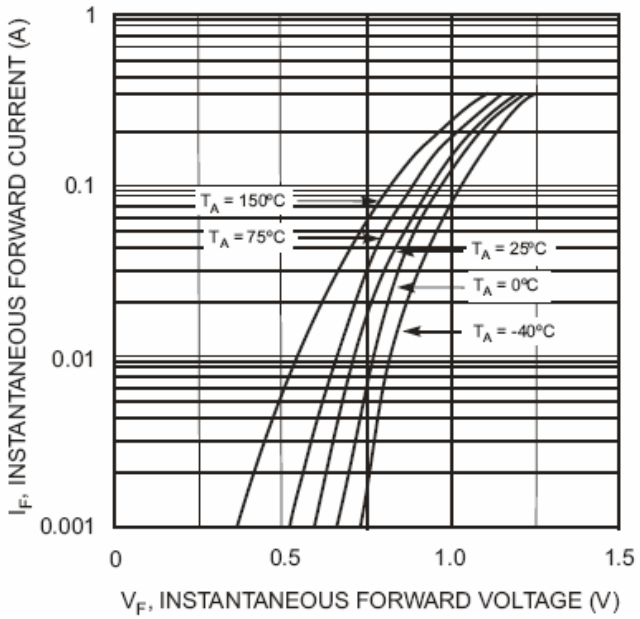


Fig. 2 Forward Characteristics

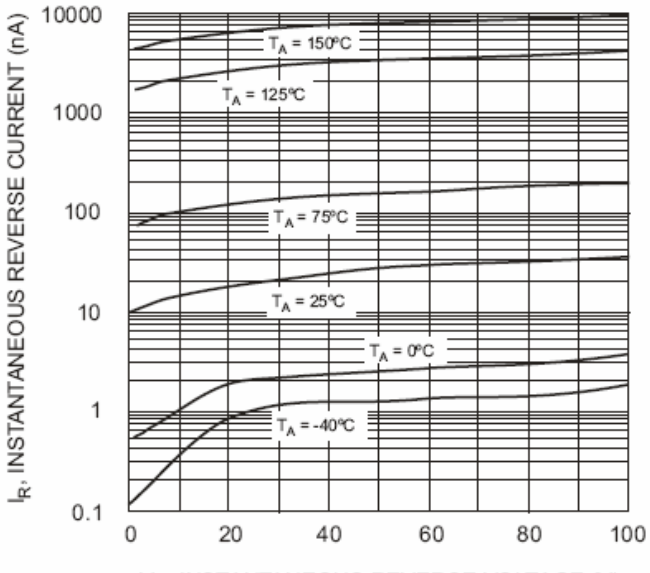


Fig. 3 Typical Reverse Characteristics

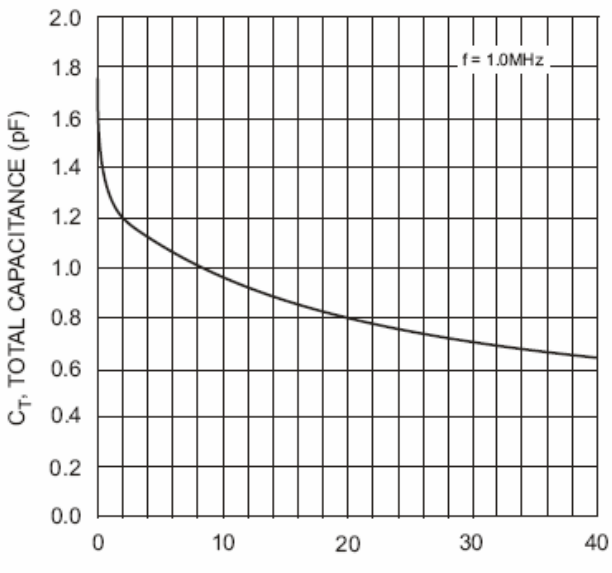


Fig. 4 Typical Capacitance vs. Reverse Voltage