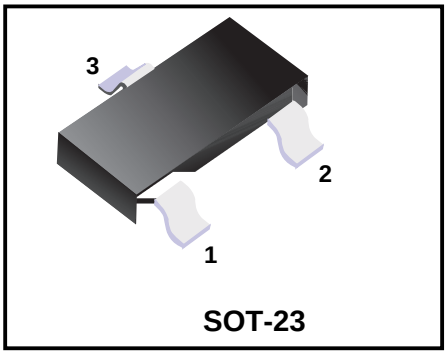
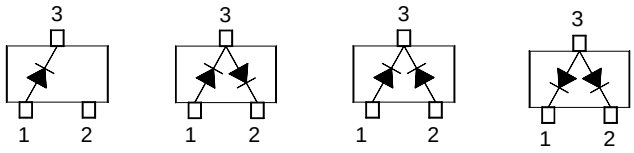
Silicon Epitaxial Planar Switching Diode



MMBD4148 MMBD4148SE MMBD4148CC MMBD4148CA



Marking Code	

Absolute Maximum Ratings (Ta = 25)

Parameter	Symbol	Value	Unit
Maximum Repetitive Reverse Voltage	V_{RRM}	100	V
Reverse Voltage	V_R	75	V
Average Rectified Forward Current	$I_{F(AV)}$	200	mA
DC Forward Current	I_{FM}	600	mA
Recurrent Peak Forward Current	I_{FRM}	700	mA
Non-repetitive Peak Forward Surge Current at t = 1 s at t = 1 μs	I_{FSM}	1 2	A
Total Device Dissipation	P_{tot}	350	mW
Operating Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	- 55 to + 150	°C

Characteristics at Ta = 25

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I_F = 10 mA	V_F	-	1	V
Reverse Breakdown Voltage at I_R = 100 μA at I_R = 5 μA	$V_{(BR)R}$	100 75	- -	V
Reverse Current at V_R = 20 V at V_R = 75 V at V_R = 20 V, T_a = 150 °C	I_R	- - -	25 5 50	nA μA μA
Reverse Recovery Time at I_F = 10 mA, V_R = 6 V, I_{RR} = 1 mA, R_L = 100 Ω	t_{rr}	-	4	ns
Total Capacitance at V_R = 0 V, f = 1 MHz	C_T	-	4	pF

Typical Characteristics

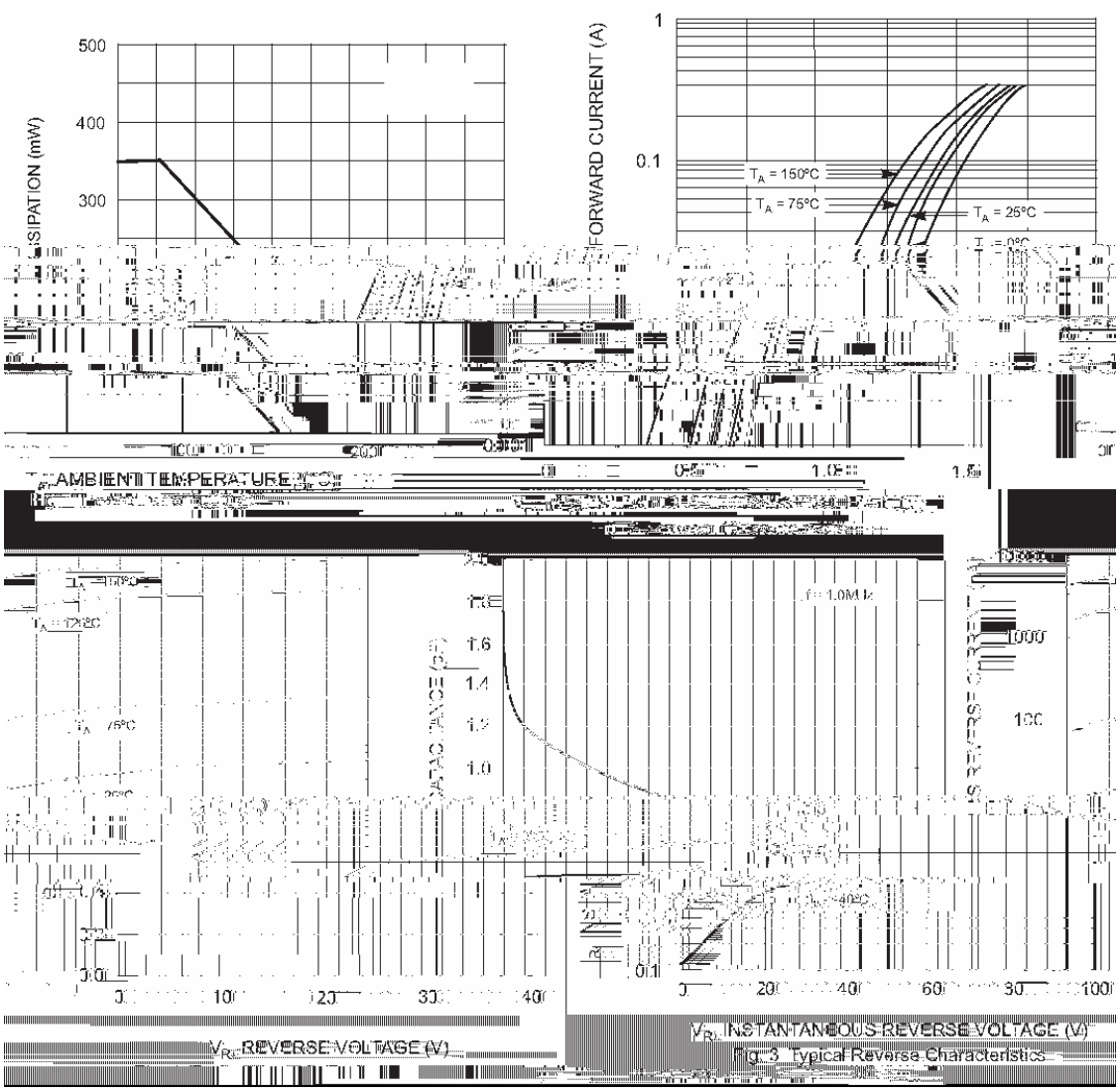


Fig. 3 Typical Reverse Characteristics

Ordering information

Package	Packing Description	Base Quantity	Packing Quantity
SOT-23	Tape/Reel,7”reel	3000pcs/Reel	24000PCS/Box 120000PCS/Carton

Package Dimensions

SOT-23

Dim.	Millimeter (mm)		mil	
	Min.	Max.	Min.	Max.
A	0.9	1.15	35	45
A1	0.1		3.9	
bp	0.38	0.48	15	19
C	0.09	0.15	3.54	5.9
D	2.8	3.0	110	118

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