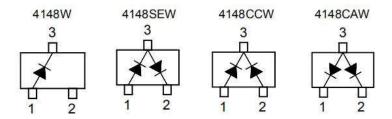
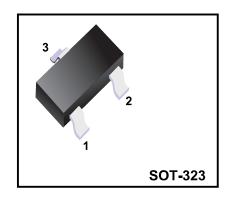


Silicon Epitaxial Planar Switching Diode



product name	Marking
MMBD4148W	A6
MMBD4148SEW	A7
MMBD4148CCW	PH
MMBD4148CAW	YX



Absolute Maximum Ratings (T_a = 25 °C)

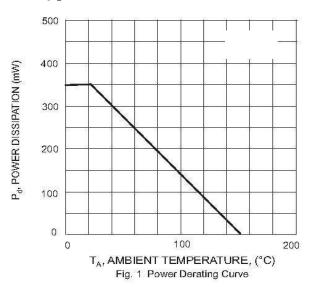
Parameter	Symbol	Value	Unit
Maximum Repetitive Reverse Voltage	V_{RRM}	100	V
Reverse Voltage	V _R	75	V
Average Rectified Forward Current	I _{F(AV)}	200	mA
DC Forward Current	I _{FM}	600	mA
Recurrent Peak Forward Current	I _{FRM}	700	mA
Non-repetitive Peak Forward Surge Current at t = 1 s at t = 1 μs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

Characteristics at Ta = 25 °C

Parameter	Symbol	Min.	Max.	Unit
Forward Voltage at I _F = 10 mA	V _F	-	1	V
Reverse Breakdown Voltage at I_R = 100 μ A at I_R = 5 μ A	$V_{(BR)R}$	100 75	- -	V
Reverse Current at $V_R = 20 \text{ V}$ at $V_R = 75 \text{ V}$	I _R	<u>-</u>	25 5	nΑ μΑ
at V _R = 20 V, T _a = 150 °C		-	50	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 $V_R = 0 V$, $f = 1 MHz$	Ст	-	4	pF

MMBD4148W- SEW- CCW- CAW SOT-323

Typical Characteristics



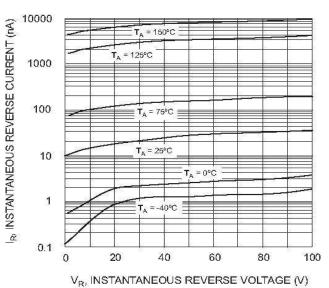
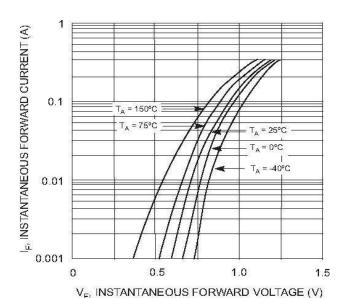
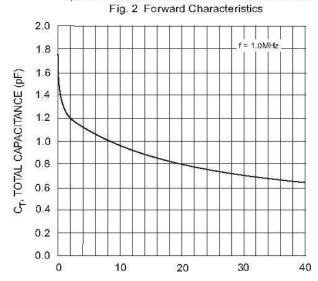


Fig. 3 Typical Reverse Characteristics

Rev:BDCJI





V_R, REVERSE VOLTAGE (V)
Fig. 4 Typical Capacitance vs. Reverse Voltage



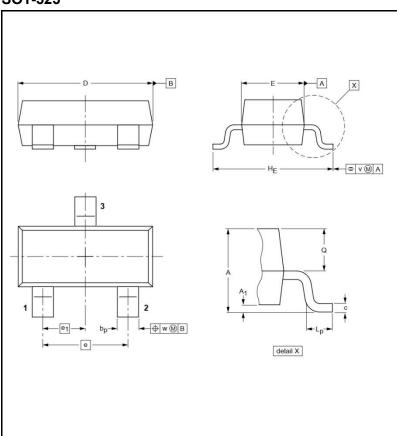
MMBD4148W- SEW- CCW- CAW SOT-323

Ordering information

Package	Packing Description	Base Quantity	Packing Quantity
SOT-323	Tape/Reel,7"reel	3000pcs/Reel	24000PCS/Box 120000PCS/Carton

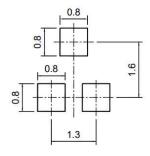
Package Dimensions

SOT-323



Dim.	Millimeter (mm)		mil	
	Min.	Max.	Min.	Max.
Α	0.8	1.1	32	43
A1	0.1		4	
bp	0.3	0.4	12	16
С	0.10	0.25	4	10
D	1.8	2.2	71	87
Е	1.15	1.35	45	53
Е	1.3		51	
E1	0.65		26	ò
HE	2.0	2.2	79	87
Lp	0.15	0.45	6	18
Q	0.13	0.23	5.1	9
V	0.2		8	
W	0.2		8	

The recommended mounting pad size





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