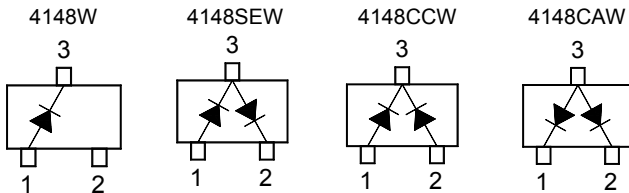
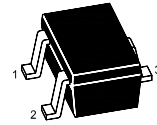


## MMBD4148W / SEW / CCW / CAW

### Silicon Epitaxial Planar Switching Diode



SOT-323 Plastic Package

MMBD4148W Marking Code: **A6**  
 MMBD4148SEW Marking Code: **A7**  
 MMBD4148CCW Marking Code: **PH**  
 MMBD4148CAW Marking Code: **YX**

#### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

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	$I_{FSM}$	1	A
		2	
Total Device Dissipation	$P_{tot}$	200	mW
Operating Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 150	$^\circ\text{C}$

#### Characteristics at $T_a = 25\text{ }^\circ\text{C}$

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

**MMBD4148W / SEW / CCW / CAW**

