

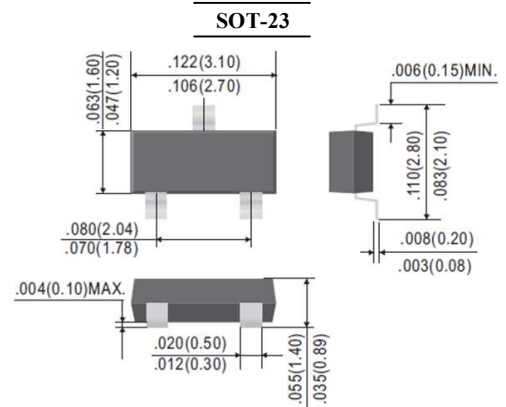
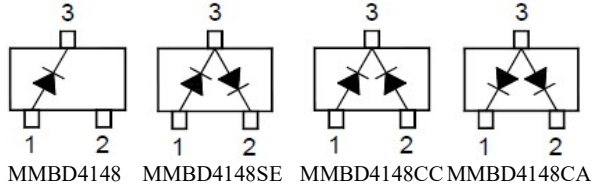


MMBD4148 / SE / CC / CA

SWITCHING DIODE

FEATURES

- For high-speed switching applications
- Suffix "H" indicates Halogen-free parts, ex. MMBD4148H.



Dimensions in inch and (millimeter)

Maximum Ratings ($T_A = 25\text{ }^\circ\text{C}$ unless otherwise noted)

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
Non-repetitive Peak Forward Surge Current	I_{FSM}	at $t = 1\text{ s}$	1
		at $t = 1\text{ }\mu\text{s}$	2
Total Power Dissipation	P_{tot}	350	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to +150	$^\circ\text{C}$

Electrical Characteristics ($T_A = 25\text{ }^\circ\text{C}$ unless otherwise specified)

Parameter	Conditions	Symbol	Min	Max	Unit
Forward Voltage	$I_F = 10\text{ mA}$	V_F	-	1	V
Reverse Breakdown Voltage	$I_R = 100\text{ }\mu\text{A}$	$V_{BR(R)}$	100	-	V
	$I_R = 5\text{ }\mu\text{A}$		75	-	
Reverse Current	$V_R = 20\text{ V}$	I_R	-	25	nA
	$V_R = 75\text{ V}$		-	5	μA
Diode Capacitance	$V_R = 0\text{ V}$, $f = 1\text{ MHz}$	C_d	-	4.0	pF
Reverse recovery time	$I_F = 10\text{ mA}$, $V_R = 6\text{ V}$, $I_{RR} = 1\text{ mA}$, $R_L = 100\text{ }\Omega$	T_{rr}	-	4.0	nS



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RATINGS AND CHARACTERISTIC CURVES

