

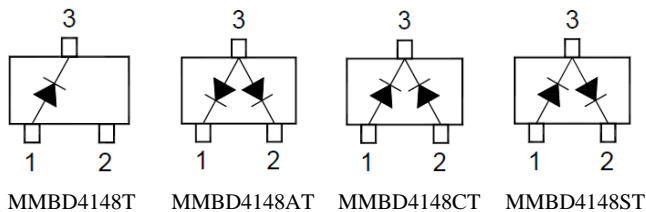


# MMBD4148T / AT / CT / ST

## SWITCHING DIODE

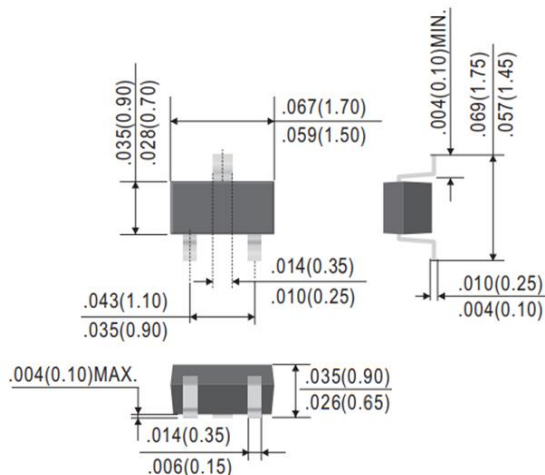
### FEATURES

- For high-speed switching applications
- Suffix "H" indicates Halogen-free parts, ex. MMBD4148TH.



MMBD4148T    MMBD4148AT    MMBD4148CT    MMBD4148ST

### SOT-523



Dimensions in inch (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	$I_{FSM}$	1	A
at $t = 1\text{ }\mu\text{s}$		2	
Total Power Dissipation	$P_{tot}$	150	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	$I_R = 100\mu\text{A}$	$V_{BR(R)}$	100	-	V
	$I_R = 5\mu\text{A}$		75	-	
Reverse Current	$V_R = 20\text{V}$	$I_R$	-	25	nA
	$V_R = 75\text{V}$		-	5	$\mu\text{A}$
	$V_R = 20\text{V}, T_j = 150\text{ }^\circ\text{C}$		-	50	$\mu\text{A}$
Diode Capacitance	$V_R = 0\text{V}, f = 1\text{MHz}$	$C_d$	-	4.0	pF
Reverse recovery time	$I_F = 10\text{mA}, V_R = 6\text{V}, I_{RR} = 1\text{mA}, R_L = 100\Omega$	$T_{rr}$	-	4	nS



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### RATINGS AND CHARACTERISTIC CURVES

