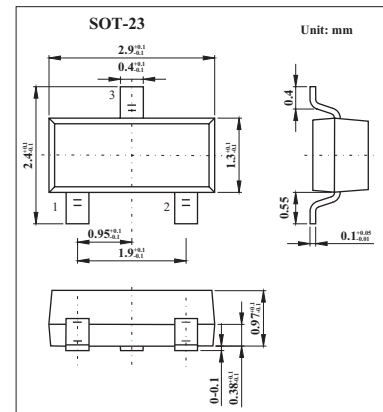


## Surface Mount Switching Diodes

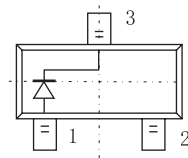
## MMBD4448H

## ■ Features

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance



## ■ PIN Array

■ Absolute Maximum Ratings  $T_a = 25^\circ\text{C}$ 

Parameter	Symbol	Rating	Unit
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	100	V
Peak Repetitive Reverse Voltage	$V_{RRM}$	80	V
Working Peak Reverse Voltage	$V_{RWM}$		
DC Blocking Voltage	$V_R$		
RMS Reverse Voltage	$V_{R(RMS)}$	57	V
Forward Continuous Current	$I_{FM}$	500	mA
Average Rectified Output Current	$I_o$	250	mA
Non-Repetitive Peak Forward Surge Current @ $t = 1.0 \mu\text{s}$ @ $t = 1.0\text{s}$	$I_{FSM}$	4.0 2.0	A
Power Dissipation	$P_D$	350	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	357	$^\circ\text{C}/\text{W}$
Operating and Storage Temperature Range	$T_j, T_{STG}$	-65 to +150	$^\circ\text{C}$

## MMBD4448H

## ■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Reverse Breakdown Voltage (*)	V <sub>(BR)R</sub>	I <sub>R</sub> = 2.5 μ A	80			V
Forward Voltage (*)	V <sub>F</sub>	I <sub>F</sub> = 5.0mA	0.62	0.72		V
		I <sub>F</sub> = 10mA		0.855		
		I <sub>F</sub> = 100mA		1.0		
		I <sub>F</sub> = 150mA		1.25		
Reverse Current (*)	I <sub>R</sub>	V <sub>R</sub> = 75V		100		nA
		V <sub>R</sub> = 75V, T <sub>j</sub> = 150°C		50		μ A
		V <sub>R</sub> = 25V, T <sub>j</sub> = 150°C		30		μ A
		V <sub>R</sub> = 20V		25		nA
Total Capacitance	C <sub>T</sub>	V <sub>R</sub> = 6V, f = 1.0MHz		3.5		pF
Reverse Recovery Time	t <sub>rr</sub>	V <sub>R</sub> = 6V, I <sub>F</sub> = 5mA		4.0		ns

\* Short duration test pulse used to minimize self-heating effect.

## ■ Marking

Marking	KA3
---------	-----