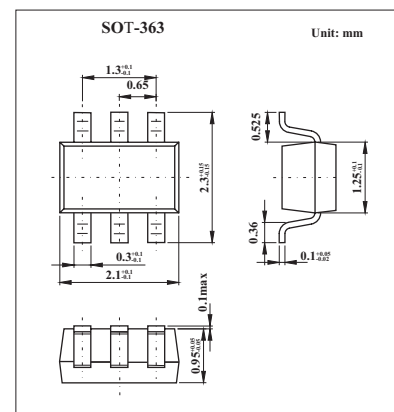


Surface Mount Fast Switching Diode Array

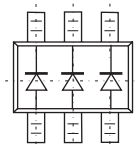
MMBD4448HTW

■ Features

- Fast Switching Speed
- Ultra-Small Surface Mount Package
- 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}		
Working Peak Reverse Voltage	V_{RWM}	80	V
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 @ $t = 1.0 \mu\text{s}$	I_{FSM}	4.0	A
@ $t = 1.0\text{s}$		2.0	
Power Dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient Air	$R_{\theta JA}$	625	$^\circ\text{C}/\text{W}$
Operating and Storage Temperature Range	T_j, T_{STG}	-65 to +150	$^\circ\text{C}$

MMBD4448HTW

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Reverse Breakdown Voltage (*)	V(BR)R	I _R = 100 μ A	80			V
Forward Voltage (*)	V _F	I _F = 5.0mA	0.62	0.72		V
		I _F = 10mA		0.855		
		I _F = 100mA		1.0		
		I _F = 150mA		1.25		
Reverse Current (*)	I _R	V _R = 70V		100		nA
		V _R = 75V, T _j = 150°C		50		μ A
		V _R = 25V, T _j = 150°C		30		μ A
		V _R = 20V		25		nA
Total Capacitance	C _T	V _R = 6V, f = 1.0MHz		3.5		pF
Reverse Recovery Time	t _{rr}	V _R = 6V, I _F = 5mA		4.0		ns

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

■ Marking

Marking	KAA
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