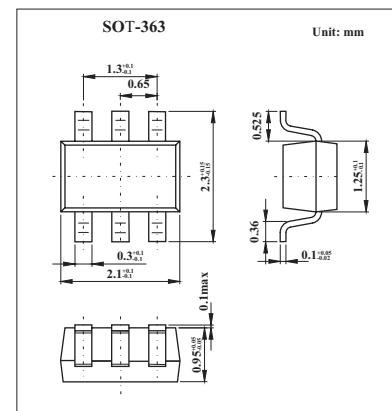


Surface Mount Fast Switching Diode Array

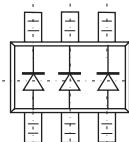
MMBD4148TW

■ Features

- Fast Switching Speed
- Ultra-Small Surface Mount Package
- For General Purpose Switching Applications
- High Conductance



■ PIN Array



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V
Peak Repetitive Reverse Voltage	V _{R_{RRM}}		
Working Peak Reverse Voltage	V _{R_{RWM}}	75	V
DC Blocking Voltage	V _R		
RMS Reverse Voltage	V _{R(RMS)}	53	V
Forward Continuous Current	I _{FM}	300	mA
Average Rectified Output Current	I _O	150	mA
Non-Repetitive Peak Forward Surge Current @ t = 1.0 μ s @ t = 1.0s	I _{FSM}	2.0 1.0	A
Power Dissipation	P _D	200	mW
Thermal Resistance Junction to Ambient Air	R _{θ JA}	625	°C/W
Operating and Storage Temperature Range	T _{j,T_{STG}}	-65 to +150	°C

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■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Reverse Breakdown Voltage (*)	V _{(BR)R}	I _R = 1.0 µ A	75			V
Forward Voltage (*)	V _F	I _F = 1.0mA		0.715		V
		I _F = 10mA		0.855		
		I _F = 50mA		1.0		
		I _F = 150mA		1.25		
Leakage Current (*)	I _R	V _R = 75V		1.0		µ A
		V _R = 75V, T _j = 150°C		50		
		V _R = 25V, T _j = 150°C		30		
		V _R = 20V		25		nA
Total Capacitance	C _T	V _R = 0, f = 1.0MHz		2.0		pF
Reverse Recovery Time	t _{rr}	I _F = I _R = 10mA, I _{rr} = 0.1 x I _R , R _L = 100 Ω		4.0		ns

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

■ Marking

Marking	KA2
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