



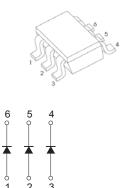
# Product data sheet

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#### SOT-363



### FEATURES

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance

### Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C

Parameter	Symbol	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V <sub>RM</sub>	100	V
Peak Repetitive Peak Reverse Voltage	V <sub>RRM</sub>		
Working Peak Reverse Voltage	V <sub>RWM</sub>	75	V
DC Blocking Voltage	V <sub>R</sub>		
RMS Reverse Voltage	$V_{R(RMS)}$	53	V
Forward Continuous Current	I <sub>FM</sub>	300	mA
Average Rectified Output Current	lo	150	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I <sub>FSM</sub>	2.0	А
Power Dissipation	Pd	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	625	°C/W
Junction Temperature	Tj	150	°C
Storage Temperature	T <sub>STG</sub>	-55~+150	°C

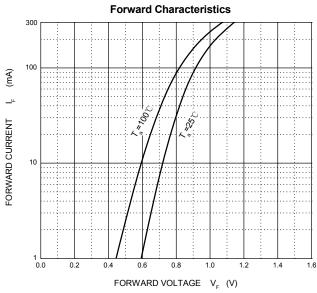
### Electrical Ratings @Ta=25℃

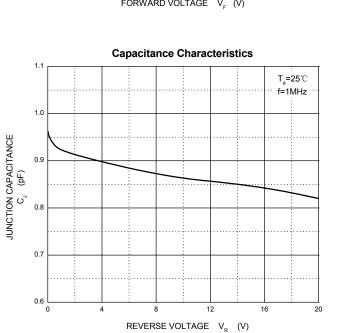
Parameter	Symbol	Min	Тур	Max	Unit	Conditions
Reverse breakdown voltage	V (BR)	75			V	I <sub>R</sub> =10μΑ
Forward voltage	V <sub>F1</sub>			0.715	V	I <sub>F</sub> =1mA
	V <sub>F2</sub>			0.855	V	I <sub>F</sub> =10mA
	V <sub>F3</sub>			1.0	V	I <sub>F</sub> =50mA
	V <sub>F4</sub>			1.25	V	I <sub>F</sub> =150mA
Deveree everent	I <sub>R1</sub>			1	μA	V <sub>R</sub> =75V
Reverse current	I <sub>R2</sub>			25	nA	V <sub>R</sub> =20V
Capacitance between terminals	CT			2	pF	V <sub>R</sub> =0V,f=1MHz
				4	ns	I <sub>F</sub> =I <sub>R</sub> =10mA
Reverse recovery time	t <sub>rr</sub>					Irr=0.1XI <sub>R</sub> ,R <sub>L</sub> =100 $\Omega$

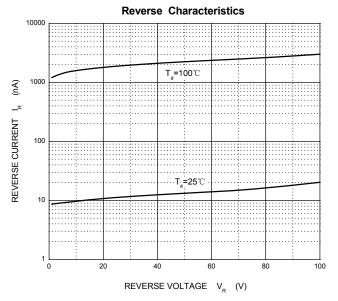


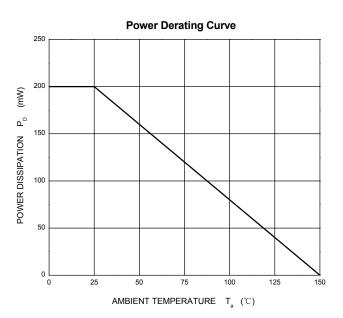
## MMBD4148TW HE 🐼

Semiconductor Compiance







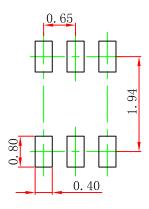


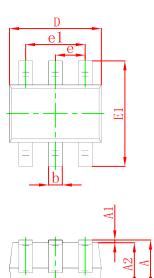


# MMBD4148TW HE 🐼

Semiconductor Compiance

SOT-363

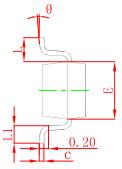




#### Note:

1.Controlling dimension:in millimeters. 2.General tolerance:± 0.05mm.

3. The pad layout is for reference purposes only.



Symbol	Dimensions In Millimeters		Dimensions In Inches		
Symbol	Min	Max	Min	Max	
Α	0.900	1.100	0.035	0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.000	0.035	0.039	
b	0.150	0.350	0.006	0.014	
С	0.100	0.150	0.004	0.006	
D	2.000	2.200	0.079	0.087	
E	1.150	1.350	0.045	0.053	
E1	2.150	2.400	0.085	0.094	
е	0.650	) TYP	0.026	6 TYP	
e1	1.200	1.400	0.047	0.055	
L	0.525 REF		0.021 REF		
L1	0.260	0.460	0.010	0.018	
θ	0°	8°	0°	8°	

### **REEL SPECIFICATION**

P/N	PKG	QTY
MMBD4148TW	SOT-363	3000



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