

# **Excellent Integrated System Limited**

Stocking Distributor

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Micro Commercial Components (MCC) MMBD4448DW-TP

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



**Distributor of Micro Commercial Components (MCC) : Excellent Integrated System Limite** Datasheet of MMBD4448DW-TP - DIODE ARRAY GP 75V 250MA SOT363 Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



**Micro Commercial Components** 



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

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## Features

- For General Purpose Switching Applications
- Halogen free available upon request by adding suffix "-HF"
- Lead Free Finish/Rohs Compliant ("P"Suffix designates RoHS Compliant. See ordering information)
- Ultra-Small Surface Mount Package
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- High Conductance, Power Dissipation
- Fast Switching Speed

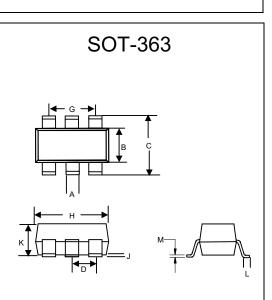


Symbol	Rating Rating		Unit
V <sub>RM</sub>	Non-Repetitive Peak Reverse Voltage	100	V
V <sub>RRM</sub> V <sub>RWM</sub> V <sub>R</sub>	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	75	V
V <sub>R(RMS)</sub>	RMS Reverse Voltage	53	V
I <sub>FM</sub>	Forward Continuous Current	500	mA
l <sub>o</sub>	Average Rectified Output Current	250	mA
I <sub>FSM</sub>	Peak Forward Surge Current @1.0 µ s @1.0s	4.0 2.0	А
R <sub>0JA</sub>	Thermal Resistance Junction to Ambient	625	°C/W
PD	Power dissipation	200	mW
TJ	Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature	-65 to +150	°C

#### Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Test Conditions
V <sub>(BR)</sub>	Reverse Breakdown Voltage	75V		I <sub>R</sub> =10 μ A
I <sub>R</sub>	Reverse Voltage Leakage Current		2.5 µ A	V <sub>R</sub> =75V
			50 µ A	V <sub>R</sub> =75V, T <sub>J</sub> =150℃
			35 µ A	V <sub>R</sub> =25V, T <sub>J</sub> =150℃
			25nA	V <sub>R</sub> =20V
V <sub>F</sub>	Forward Voltage	0.6	0.72V	I <sub>F</sub> =5.0mA
			0.855V	I <sub>F</sub> =10mA
			1.0V	I <sub>F</sub> =50mA
			1.25V	I <sub>F</sub> =150mA
CT	Total Capacitance		4.0pF	V <sub>R</sub> =0V, f=1MHZ
t <sub>rr</sub>	Reverse Recovery Time		4.0ns	I <sub>R</sub> ==I <sub>F</sub> =10mA,
				Irr=0.1xI <sub>R</sub> ,
				R <sub>L</sub> =100 Ω

## 200mW Switching Diodes



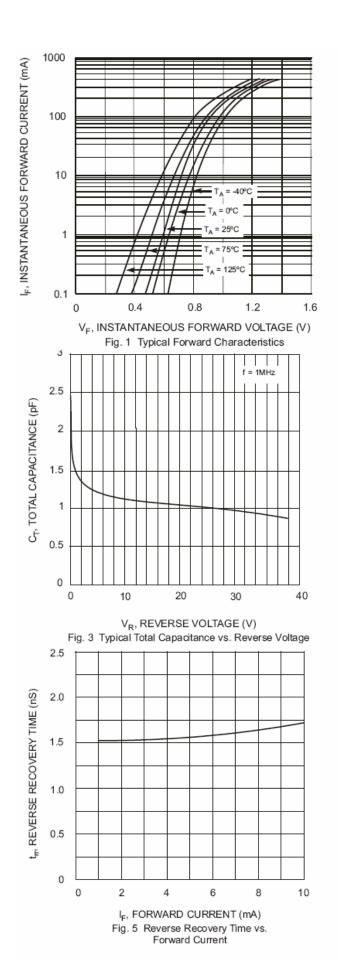
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.006	.014	0.15	0.35	
В	.045	.053	1.15	1.35	
С	.085	.096	2.15	2.45	
D	.026		0.65Nominal		
G	.047	.055	1.20	1.40	
Н	.071	.087	1.80	2.20	
J		.004		0.10	
К	.035	.043	0.90	1.10	
L	.010	.018	0.26	0.46	
М	.003	.006	0.08	0.15	

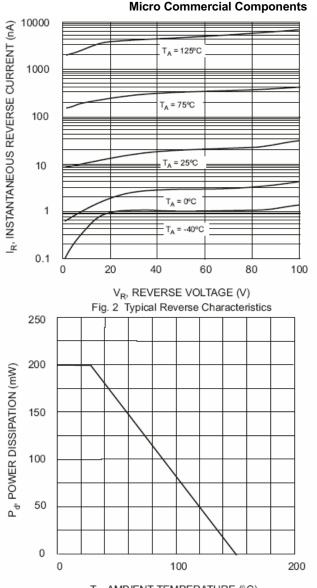


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## MMBD4448DW







T<sub>A</sub>, AMBIENT TEMPERATURE (°C) Fig. 4 Power Derating Curve, Total Package





**Micro Commercial Components** 

### **Ordering Information :**

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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