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Micro Commercial Components (MCC)
MMBD4448WT-TP

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







Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MMBD4448WT

Features

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

Mechanical Data

Polarity: See Diagram

Marking: KA3

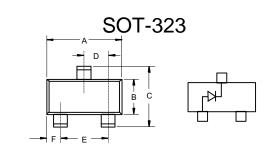
Maximum Ratings @ 25°C Unless Otherwise Specified

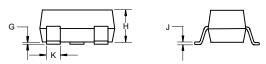
Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Volt.	V_{RM}	100	V
Peak Repetitive Reverse Voltage	VRRM		
Working Peak Reverse Voltage	VRWM	75	V
DC Blocking Voltage	VR		
RMS Reverse Voltage	V _R (RMS)	53	V
Forward Continuous Current(Note1)	I _{FM}	500	mA
Average Rectified Output Current	lo	250	mA
Non-Repetitive Peak @ t<=1.0s	lfsм	2	Α
Forward Surge Current @ t=1.0us		4	Α
Power Dissipation(Note 1)	Pd	200	mW
Thermal Resistance(Note 1)	Rthja	625	K/W
Operation/Storage Temp. Range	Тј, Тѕтс	-55 to +150	°C

Electrical Characteristics @ 25°C Unless Otherwise Specified

Charateristic	Symbol	Min	Max	Unit	Test Cond.
		0.62	0.72		I _F =5.0mA
Maximum Forward	VFM		0.855	V	I _F =10mA
Voltage Drop			1		I=100mA
			1.25		I⊧=150mA
			2.5	uA	V _R =75V
Maximum Peak	Iгм		50	uA	V _R =75V Tj=150°C
Reverse Current			30	uA	V _R =25V Tj=150°C
			25	nA	V _R =20V
Junction Capacitance	Cj		4	pF	V _R =0V, f=1.0MHz
Reverse Recovery Time	trr		4	ns	

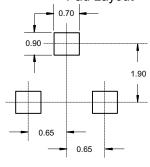
Surface Mount Switching Diode 200mW





DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.079	.087	2.00	2.20	
В	.045	.053	1.15	1.35	
C	.083	.096	2.10	2.45	
D	.026 Nominal		0.65Nominal		
Е	.047	.055	1.20	1.40	
F	.012	.016	.30	.40	
G	.000	.004	.000	.100	
Η	.035	.039	.90	1.00	
J	.003	.006	.08	.15	
K	.006	.016	.15	.40	

Suggested Solder Pad Layout



Note: 1. Valid provided that terminals are kept at ambient temperature

2. Trr Test Condition: IF=IR=10mA, Irr=0.1*IR, R=100 OHM



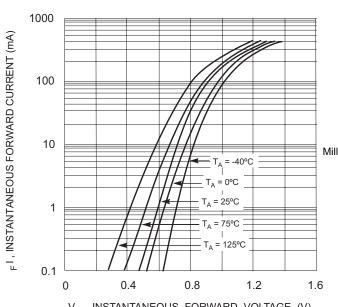
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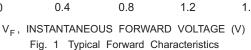
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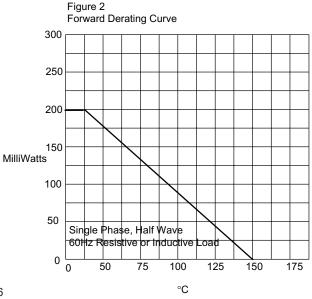
Figure 1 Typical Forward Characteristics



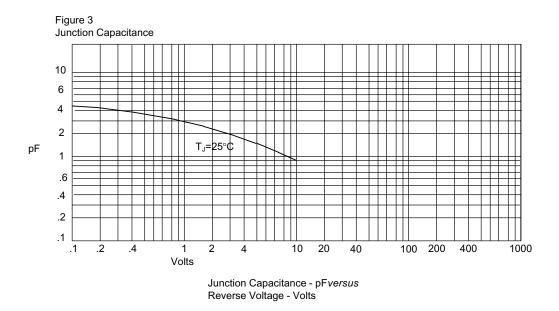
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Admissable Power Dissipation - MilliWattsversus Ambient Temperature -°C



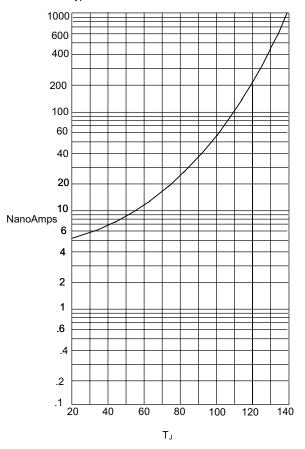
www.mccsemi.com

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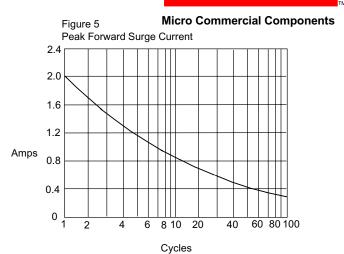


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Figure 4
Typical Reverse Characteristics



 $\cdot M \cdot C \cdot C \cdot$



Peak Forward Surge Current - Amperesversus Number Of Cycles At 60Hz - Cycles

T_A=25°C

Instantaneous Reverse Leakage Current - NanoAmpere ${\it sersus}$ Junction Temperature - °C

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Distributor of Micro Commercial Components (MCC): Excellent Integrated System Limite

Datasheet of MMBD4448WT-TP - DIODE GEN PURP 75V 250MA SOT323

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



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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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