

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

MMBD4448HAQW/ ADW/CDW/SDW/ **CQW/TW**

Features

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance, Power Dissipation
- Ultra-Small Surface Mount Package
- 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)
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

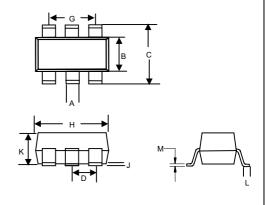
Symbol	Rating	Rating	Unit	
V_{RM}	Non-Repetitive Peak Reverse Voltage	100	V	
V_{RRM}	Peak Repetitive Reverse Voltage			
V_{RWM}	Working Peak Reverse Voltage	80	V	
V_R	DC Blocking Voltage			
$V_{R(RMS)}$	RMS Reverse Voltage	57	V	
I _{FM}	Forward Continuous Current	500	mA	
Io	Average Rectified Output Current	250	mA	
I _{FSM}	Peak Forward Surge Current @1.0 μ s	4.0	Α	
	@1.0s	1.5	A	
R _{0 JA}	Thermal Resistance Junction to Ambient	625	°C/W	
P _D	Power dissipation	200	mW	
TJ	Junction Temperature	150	$^{\circ}$	
T_{STG}	Storage Temperature	-65 to +150	$^{\circ}$	

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Test Conditions
$V_{(BR)}$	Reverse Breakdown Voltage	80V		I _R =100 μ A
I _R	Reverse Voltage Leakage Current		100nA	V _R =70V
			50 μ A	V _R =75V, T _J =150°C
			30 μ A	V _R =25V, T _J =150°C
			25nA	V _R =20V
V_{F}	Forward Voltage	0.62	0.72V	I _F =5.0mA
			0.855V	I _F =10mA
			1.0V	I _F =50mA
			1.25V	I _F =150mA
Ст	Total Capacitance		3.5pF	V _R =6V, f=1MHZ
t _{rr}	Reverse Recovery Time		4.0ns	I _F =5mA, VR=6V

200mW **Switching Diodes**

SOT-363



	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		
K	.035	.043	0.90	1.10		
L	.010	.018	0.26	0.46		
M	.003	.006	0.08	0.15		



Marking: KA4 MMBD4448HCQW



Marking: KA5 MMBD4448HAQW



Marking: KA6 MMBD4448HADW



Marking: KA7 MMBD4448HCDW



Marking: KAB MMBD4448HSDW



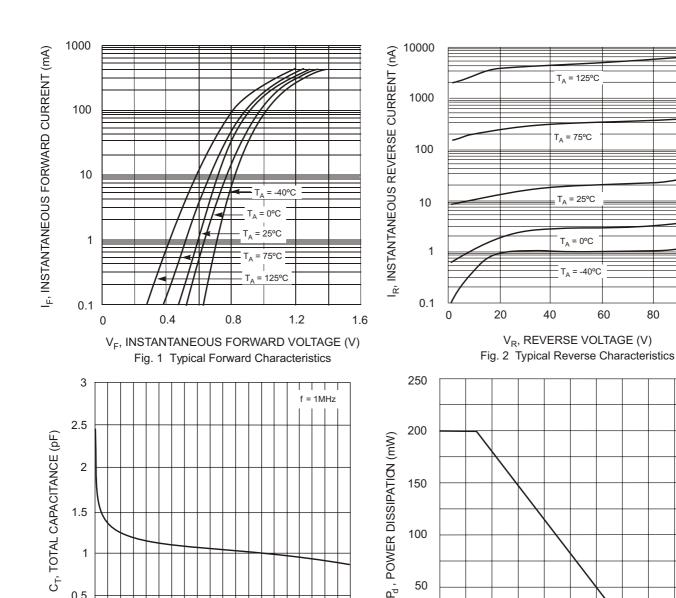
Marking: KAA MMBD4448HTW

MMBD4448HCQW/AQW/ADW/CDW/SDW/TW

80

100

200



V_R, REVERSE VOLTAGE (V) Fig. 3 Typical Capacitance vs. Reverse Voltage

20

30

40

0.5

0

0

10

T_A, AMBIENT TEMPERATURE (°C) Fig. 4 Power Derating Curve, Total Package

100

50

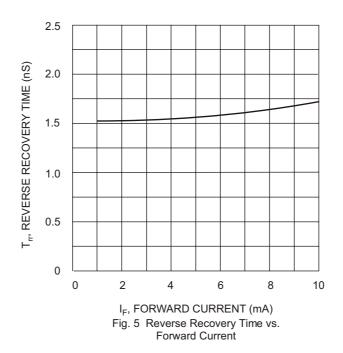
0

0

Revision: B 2013/01/01

MMBD4448HCQW/AQW/ADW/CDW/SDW/TW







Ordering Information:

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

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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp.** does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp.** and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

AMEYA360 Components Supply Platform

Authorized Distribution Brand:

























Website:

Welcome to visit www.ameya360.com

Contact Us:

Address:

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd Minhang District, Shanghai , China

Sales:

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

Customer Service :

Email service@ameya360.com

Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com