



Micro Commercial Components



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

MMBD4448HAQW/ ADW/CDW/SDW/ CQW/TW

Features

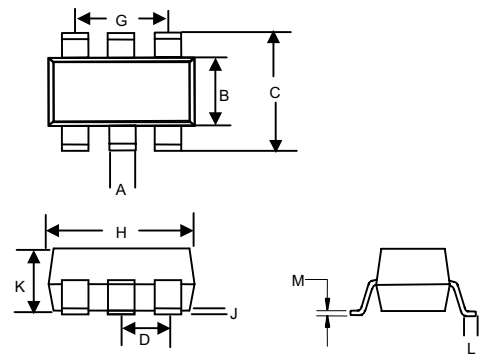
- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance, Power Dissipation
- Ultra-Small Surface Mount Package
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant ("P" Suffix designates RoHS Compliant. See ordering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

200mW Switching Diodes

Maximum Ratings

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

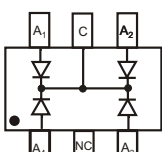
SOT-363



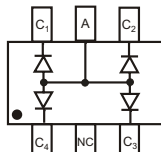
Electrical Characteristics @ 25 $^{\circ}C$ Unless Otherwise Specified

Symbol	Parameter	Min	Max	Test Conditions
$V_{(BR)}$	Reverse Breakdown Voltage	80V	---	$I_R=100 \mu A$
I_R	Reverse Voltage Leakage Current	---	100nA	$V_R=70V$
			50 μA	$V_R=75V, T_J=150^{\circ}C$
			30 μA	$V_R=25V, T_J=150^{\circ}C$
V_F	Forward Voltage	0.62	0.72V	$I_F=5.0mA$
		---	0.855V	$I_F=10mA$
		---	1.0V	$I_F=50mA$
		---	1.25V	$I_F=150mA$
C_T	Total Capacitance	---	3.5pF	$V_R=6V, f=1MHz$
t_{rr}	Reverse Recovery Time	---	4.0ns	$I_F=5mA, V_R=6V$

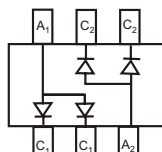
DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	.006	.014	0.15	0.35	
B	.045	.053	1.15	1.35	
C	.085	.096	2.15	2.45	
D	.026		0.65Nominal		
G	.047	.055	1.20	1.40	
H	.071	.087	1.80	2.20	
J	---	.004	---	0.10	
K	.035	.043	0.90	1.10	
L	.010	.018	0.26	0.46	
M	.003	.006	0.08	0.15	



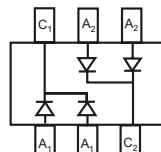
Marking: KA4
MMBD4448HCQW



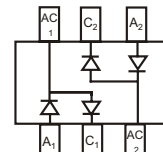
Marking: KA5
MMBD4448HAQW



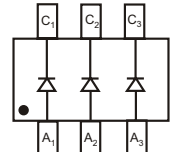
Marking: KA6
MMBD4448HADW



Marking: KA7
MMBD4448HCDW



Marking: KAB
MMBD4448HSDW



Marking: KAA
MMBD4448HTW

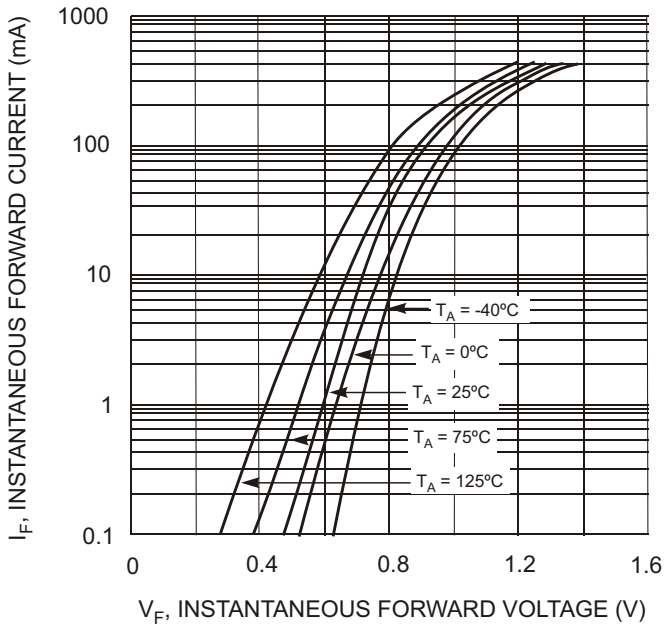


Fig. 1 Typical Forward Characteristics

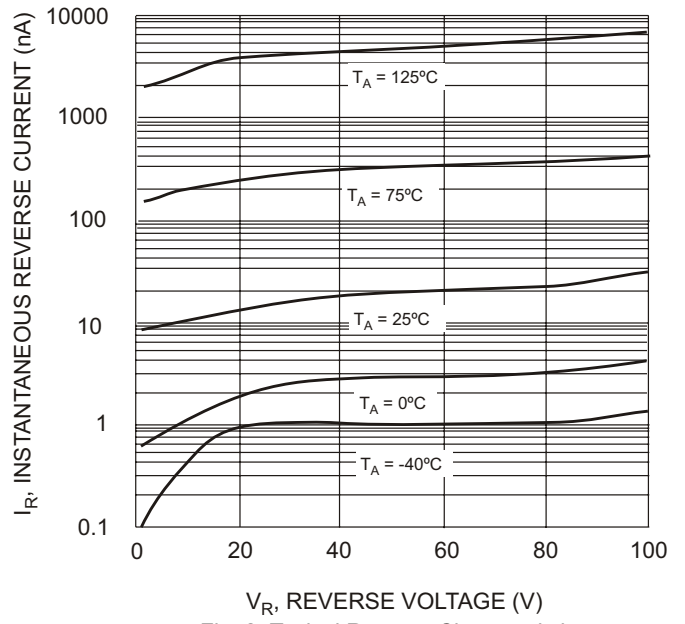


Fig. 2 Typical Reverse Characteristics

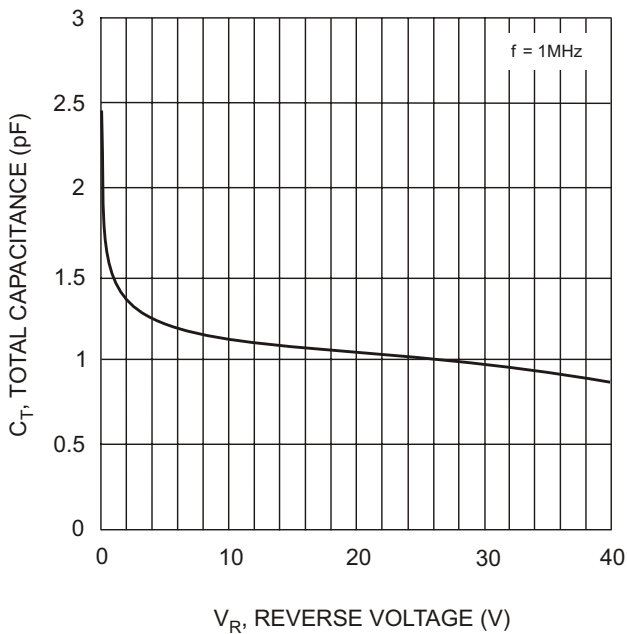


Fig. 3 Typical Capacitance vs. Reverse Voltage

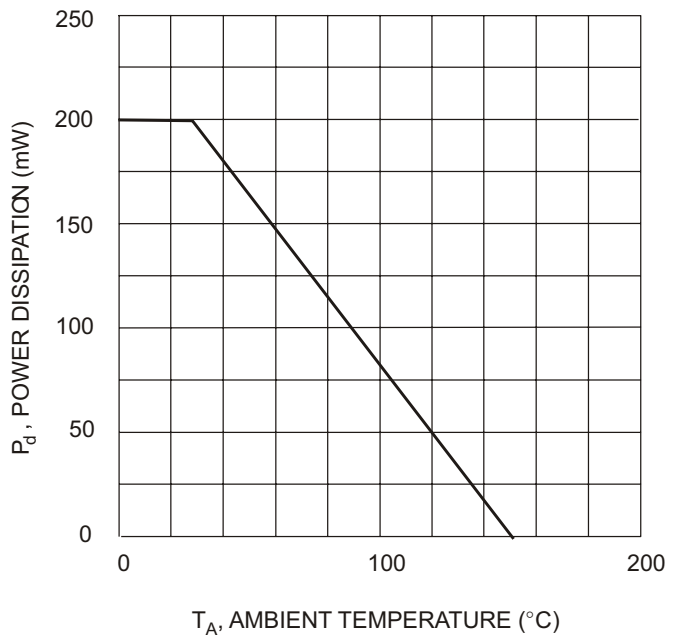
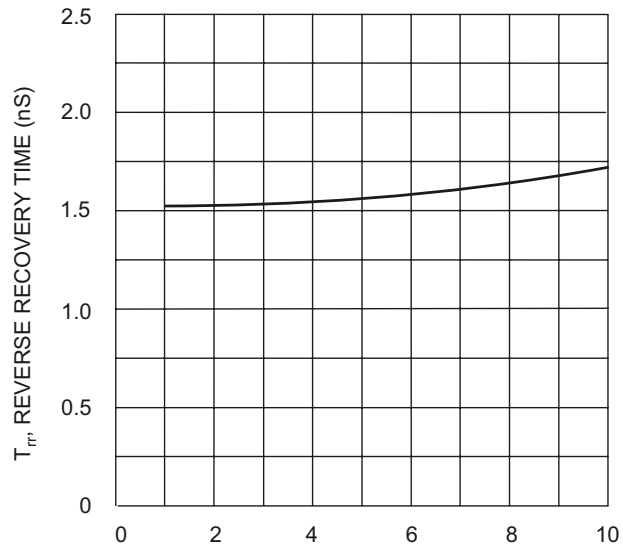


Fig. 4 Power Derating Curve, Total Package



I_F , FORWARD CURRENT (mA)
Fig. 5 Reverse Recovery Time vs.
Forward Current



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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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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9