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

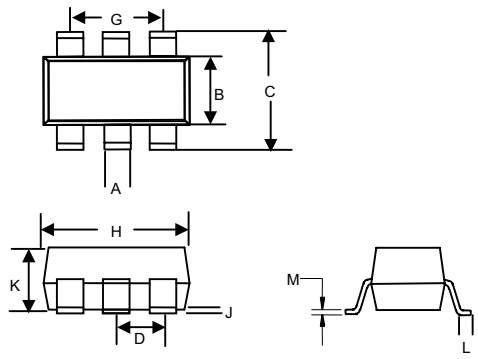
MMBD4448HAQW/ ADW/CDW/SDW/ CQW/TW

200mW Switching Diodes

Features

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance, Power Dissipation
- Ultra-Small Surface Mount Package
- Case Material:Molded Plastic. UL Flammability Classificatio Rating 94-0 and MSL Rating 1

SOT-363



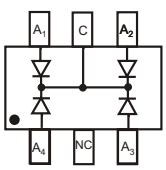
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.006	.014	0.15	0.35	
B	.045	.053	1.15	1.35	
C	.085	.096	2.15	2.45	
D	.026		0.65Nominal		
G	.047	.055	1.20	1.40	
H	.071	.087	1.80	2.20	
J	---	.004	---	0.10	
K	.035	.043	0.90	1.10	
L	.010	.018	0.26	0.46	
M	.003	.006	0.08	0.15	

Maximum Ratings

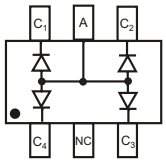
Symbol	Rating	Rating	Unit
V_{RM}	Non-Repetitive Peak Reverse Voltage	100	V
V_{RRM} V_{RWM} V_R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	80	V
$V_{R(RMS)}$	RMS Reverse Voltage	57	V
I_{FM}	Forward Continuous Current	500	mA
I_O	Average Rectified Output Current	250	mA
I_{FSM}	Peak Forward Surge Current @1.0μs @1.0s	4.0 2.0	A
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	625	℃/W
P_D	Power dissipation	200	mW
T_J	Junction Temperature	150	℃
T_{STG}	Storage Temperature	-65 to +150	℃

Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Test Conditions
$V_{(BR)}$	Reverse Breakdown Voltage	80V	---	I_R=100μA
I_R	Reverse Voltage Leakage Current	---	100nA 50μA 30μA 25nA	V_R=70V V_R=75V, T_J=150℃ V_R=25V, T_J=150℃ V_R=20V
V_F	Forward Voltage	0.62 --- --- ---	0.72V 0.855V 1.0V 1.25V	I_F=5.0mA I_F=10mA I_F=50mA 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



Marking: KA4
MMBD4448HCQW



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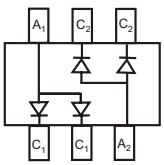

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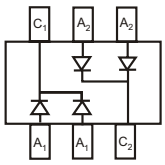

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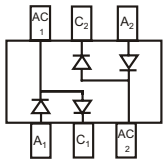

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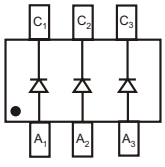

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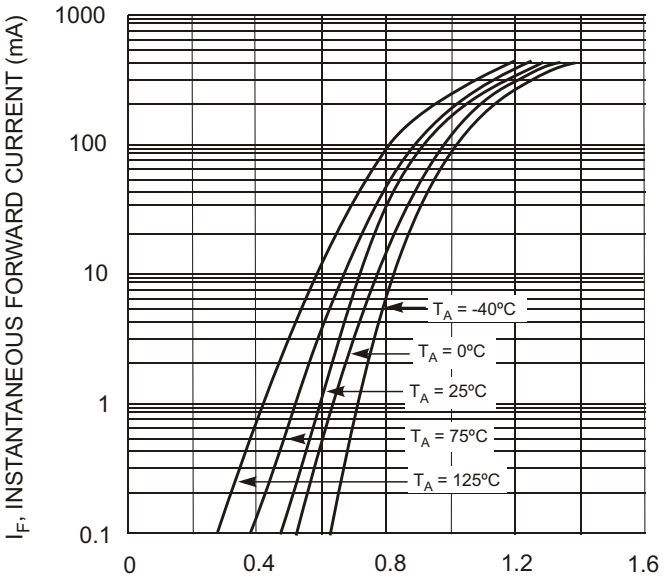

Fig. 1 Typical Forward Characteristics

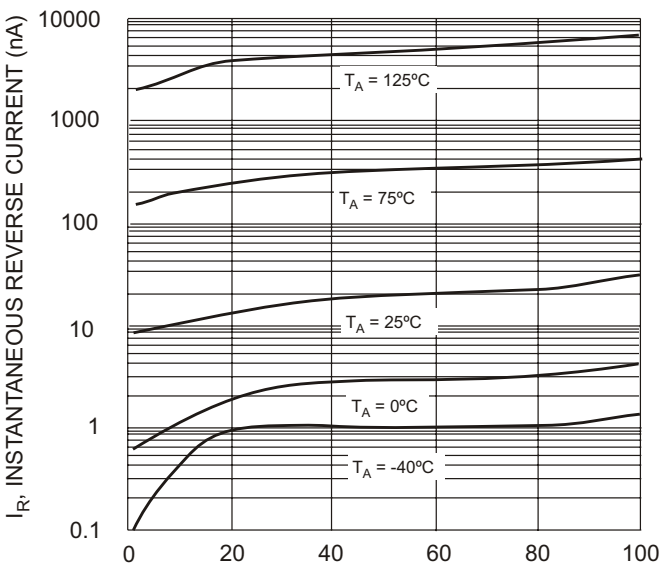

Fig. 2 Typical Reverse Characteristics

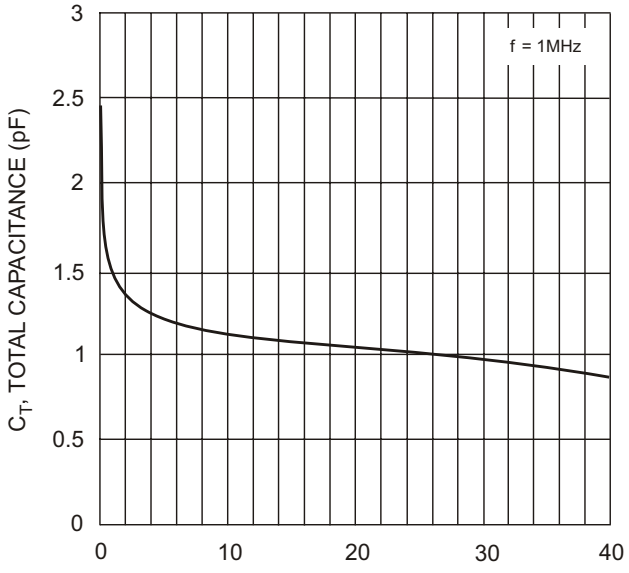

Fig. 3 Typical Capacitance vs. Reverse Voltage

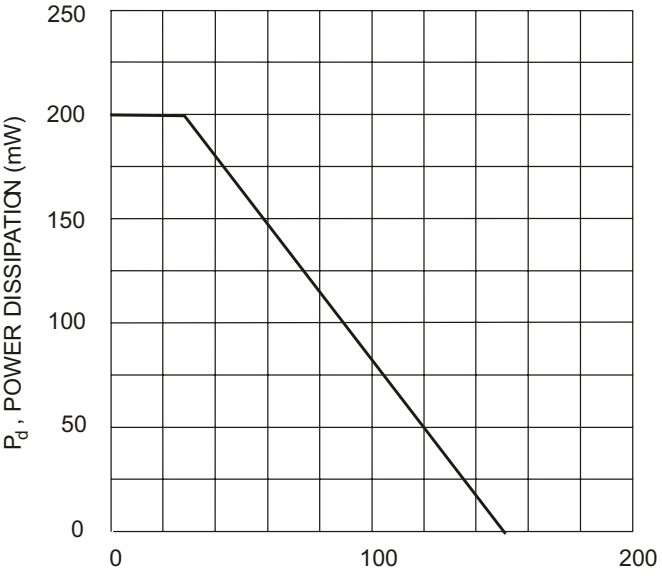

Fig. 4 Power Derating Curve, Total Package

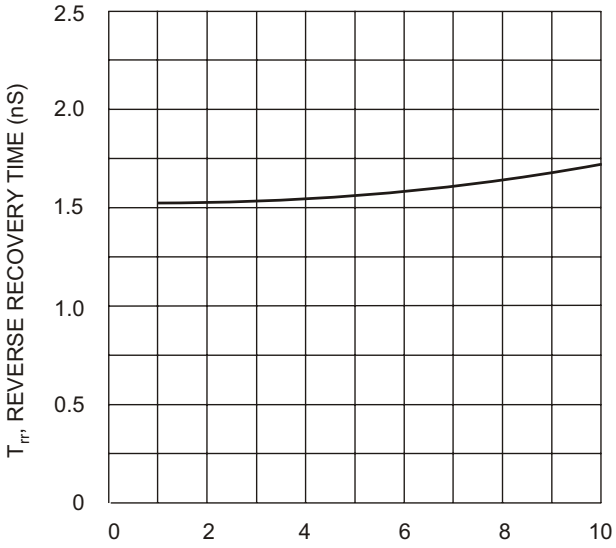

Fig. 5 Reverse Recovery Time vs. Forward Current

Micro Commercial Components

Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel;3Kpcs/Reel