



MMBD4448V

Features

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

Maximum Ratings

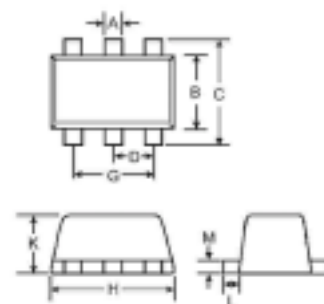
Symbol	Parameter	Rating	Unit
V_{RM}	Non-Repetitive Peak Reverse Voltage	100	V
V_{RRM}	Peak Repetitive Reverse Voltage	80	V
V_{RWM}	Working Peak Reverse Voltage		
V_R	DC Blocking Voltage		
$V_{R(RMS)}$	RMS Reverse Voltage	57	V
I_{FM}	Forward Continuous Current	500	mA
I_O	Average Rectified Output Current	250	mA
I_{FSM}	Peak Forward Surge Current @1.0 μ s @1.0s	4.0	A
		2.0	
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	833	$^{\circ}\text{C}/\text{W}$
P_D	Power dissipation	150	mW
T_J	Junction Temperature	150	$^{\circ}\text{C}$
T_{STG}	Storage Temperature	-65 to +150	$^{\circ}\text{C}$

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

Symbol	Parameter	Min	Max	Test Conditions
$V_{(BR)}$	Reverse Breakdown Voltage	80V		$I_R=2.5 \mu\text{A}$
I_R	Reverse Voltage Leakage Current		0.1 μA	$V_R=70\text{V}$
			25nA	$V_R=20\text{V}$
V_F	Forward Voltage		0.72V	$I_F=5\text{mA}$
			0.855V	$I_F=10\text{mA}$
			1.0V	$I_F=100\text{mA}$
			1.25mV	$I_F=150\text{mA}$
C_T	Total Capacitance		3.5pF	$V_R=6\text{V}$, $f=1\text{MHz}$
t_{rr}	Reverse Recovery Time		4ns	$V_R=6\text{V}$, $I_F=5\text{mA}$

150mW Switching Diodes

SOT-563



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.006	.011	0.15	0.30	
B	.043	.049	1.10	1.25	
C	.061	.067	1.55	1.70	
D	.020		0.50		
G	.035	.043	0.90	1.10	
H	.059	.067	1.50	1.70	
K	.022	.023	0.56	0.60	
L	.004	.011	0.10	0.30	
M	.004	.007	0.10	0.18	

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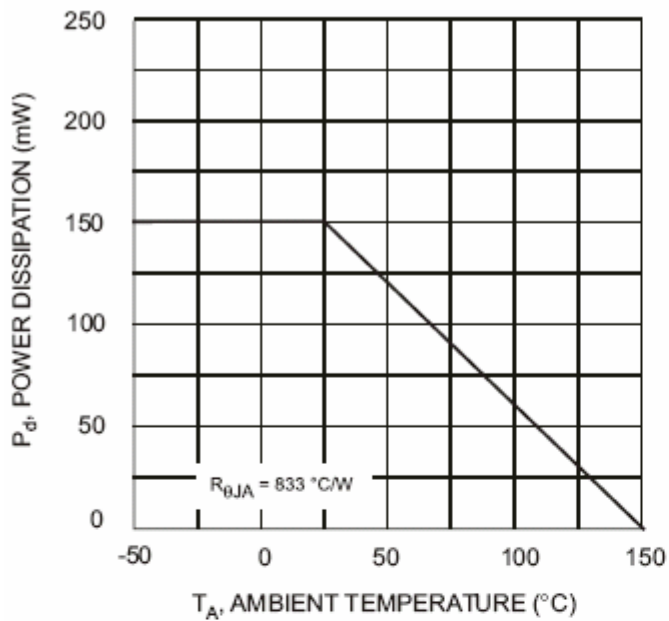


Fig. 1, Derating Curve - Total

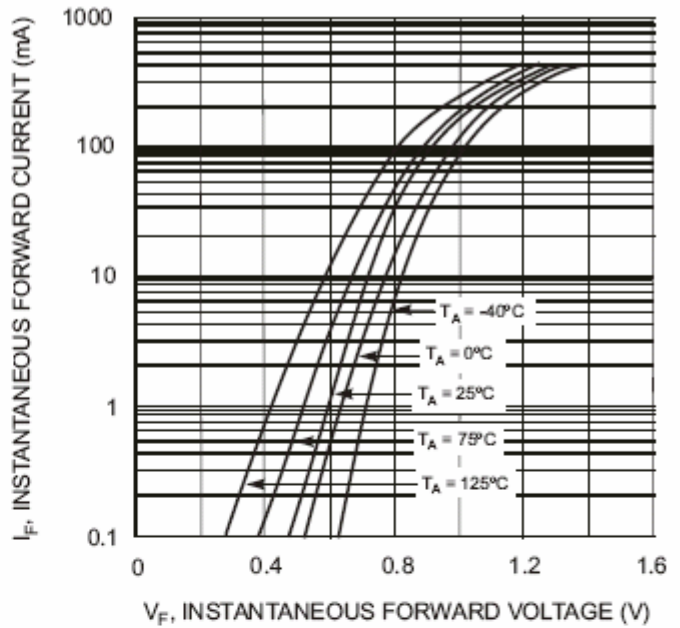


Fig. 2 Typical Forward Characteristics

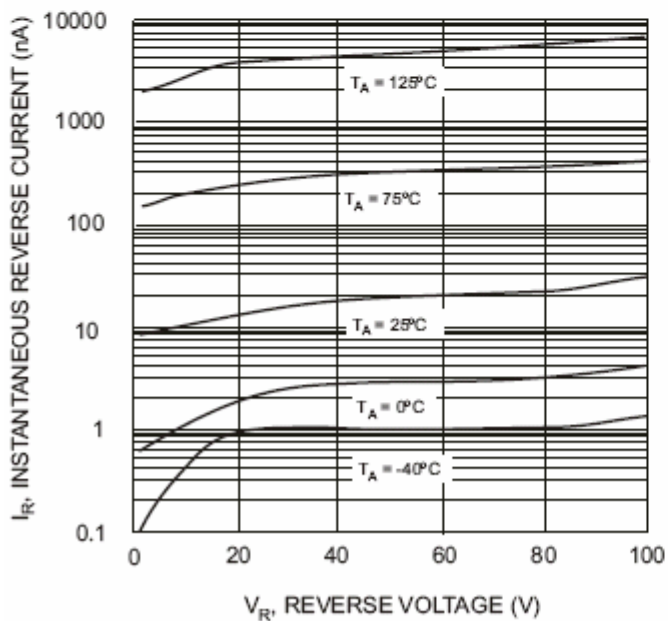


Fig. 3 Typical Reverse Characteristics

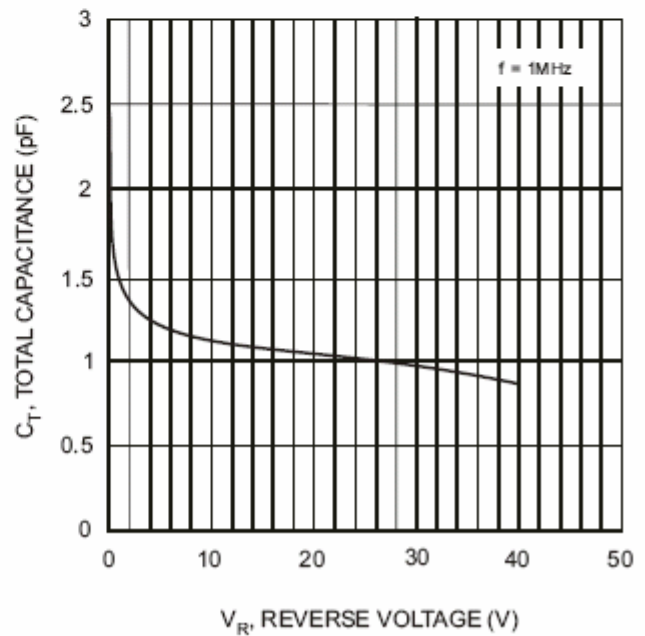
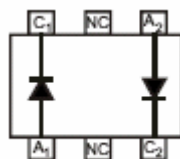


Fig. 4 Typical Capacitance vs. Reverse Voltage



MARKING: KAL

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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