



Micro Commercial Components

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MMBD4448V

Features

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion
- Case Material: Molded Plastic. UL Flammability Classification Rating 94-0 and MSL Rating 1

**150mW
Switching Diodes**

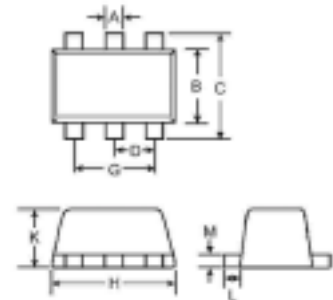
Maximum Ratings

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	4.0	A
		@ 1.0s	
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	833	$^{\circ}C/W$
P_D	Power dissipation	150	mW
T_J	Junction Temperature	150	$^{\circ}C$
T_{STG}	Storage Temperature	-65 to +150	$^{\circ}C$

Electrical Characteristics @ 25°C Unless Otherwise Specified

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

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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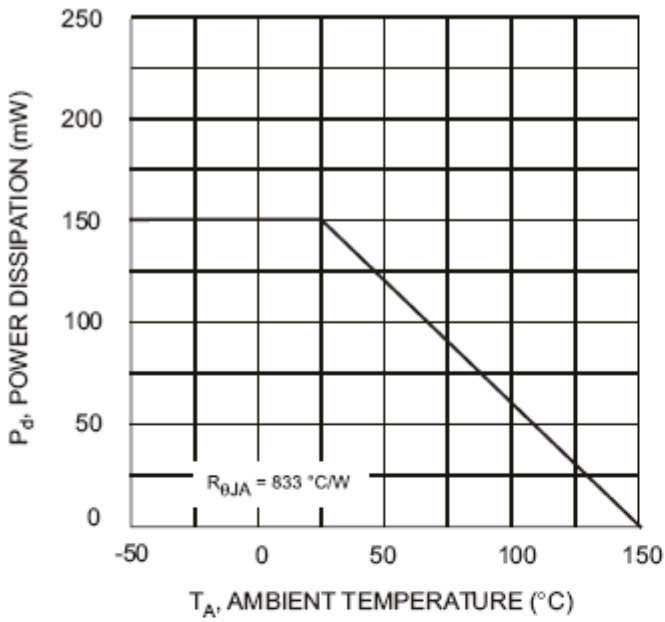


Fig. 1, Derating Curve - Total

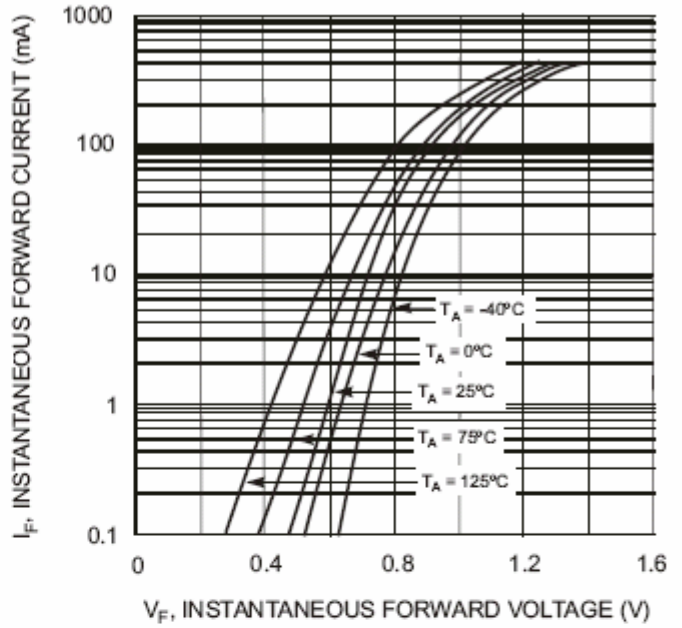


Fig. 2 Typical Forward Characteristics

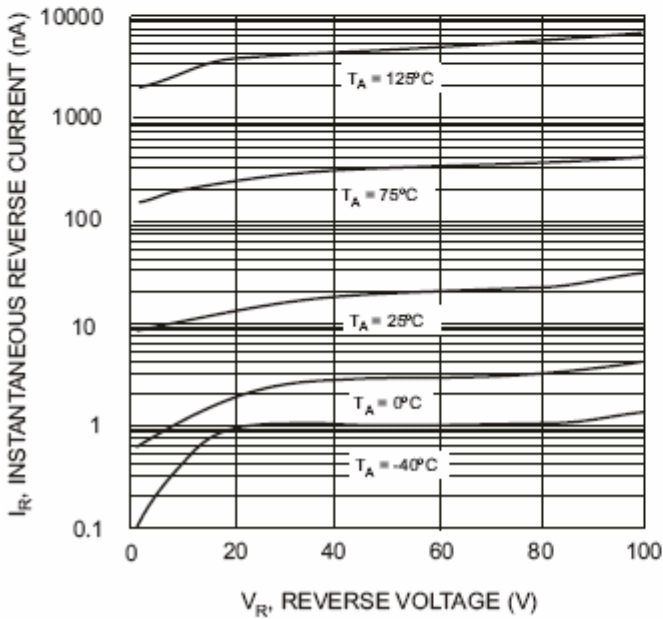


Fig. 3 Typical Reverse Characteristics

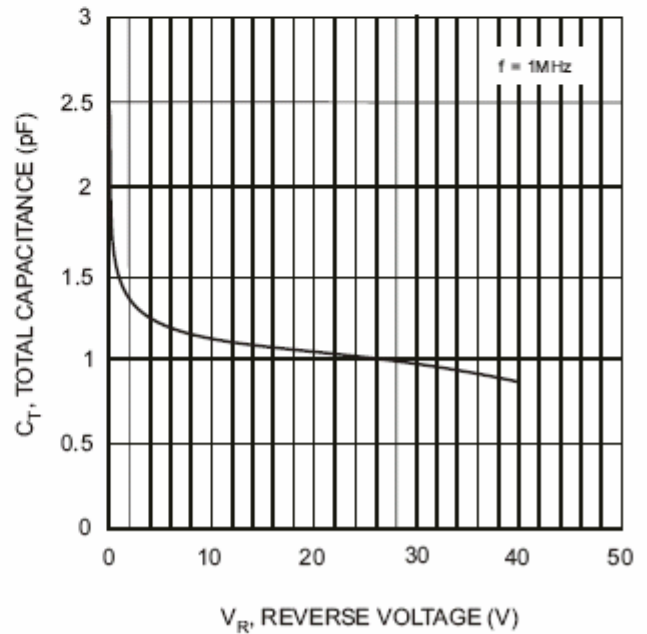
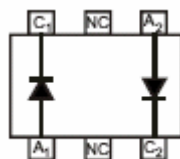


Fig. 4 Typical Capacitance vs. Reverse Voltage



MARKING: KAL



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Ordering Information

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

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