

Features

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- Halogen Free. "Green" Device (Note 1)
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance(Note 2):357°C/W Junction to Ambient

MCC Part Number	Device Marking	Peak Repetitive Reverse Voltage V _{RRM}	RMS Reverse Voltage V _{R(RMS)}	DC Blocking Voltage V _R
MMBD4448	KA3	75V	53V	75V

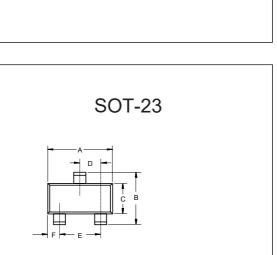
Non-Repetitive Peak Reverse Voltage	V _{RM}	100V	
Working Peak Reverse Voltage	V _{RWM}	75V	
Forward Continuous Current	I _{FM}	500mA	Note 2
Average Rectified Output Current	Ι _ο	250mA	
Non-Repetitive Peak Forward Surge Current	I _{FSM}	2A 4A	@ t<=1.0s @ t=1.0us
Power Dissipation	P _d	350mW	Note 2

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. Valid provided that terminals are kept at ambient temperature

Internal Structure

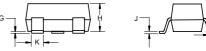




350mW

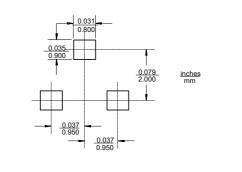
Surface Mount

Switching Diode



DIMENSIONS					
DIM	INCHES		MM		NOTE
Divi	MIN	MAX	MIN	MAX	NOTE
A	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.014	0.020	0.35	0.51	
L	0.007	0.020	0.20	0.50	

Suggested Solder Pad Layout





Electrical Characteristics @ 25°C Unless Otherwise Specified

Forward Voltage	V _{FM}	0.720V(Max.) 0.855V(Max.) 1.000V(Max.) 1.250V(Max.) 0.620V(Min.)	I_{F} =5.0mA I_{F} =10.0mA I_{F} =100.0mA I_{F} =150.0mA I_{F} =5.0mA
Maximum Peak Reverse Current	I _{RM}	2.5μΑ 50μΑ 30μΑ 25nA	V _R =75V V _R =75V, T _j =150°C V _R =25V, T _j =150°C V _R =20V
Maximum Junction Capacitance	CJ	4.0pF	V _R =0.0V,f=1.0MHz
Maximum Reverse Recovery Time	t _{rr}	4.0ns	$I_F=10mA$, $I_R=10mA$ $I_{rr}=0.1*I_R$, $R_L=100\Omega$



Curve Characteristics

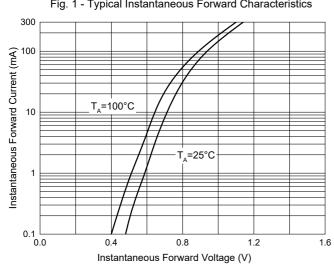
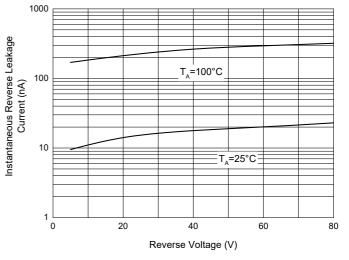
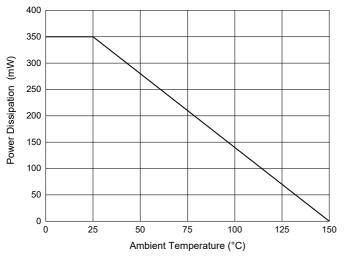


Fig. 1 - Typical Instantaneous Forward Characteristics











Ordering Information

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

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