

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

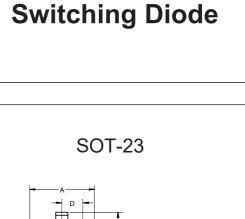
Non-Repetitive Peak Reverse Voltage	V _{RM}	100V	
Working Peak Reverse Voltage	V _{RWM}	75V	
Forward Continuous Current	I _{FM}	500mA	Note 2
Average Rectified Output Current	I _o	250mA	
Non-Repetitive Peak Forward Surge Current	I _{FSM}	2A 4A	@ t<=1.0s @ t=1.0us
Power Dissipation	P _d	350mW	Note 2

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

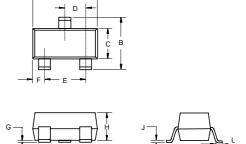
Internal Structure





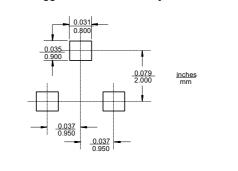
350mW

Surface Mount



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	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	
Е	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	
Κ	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

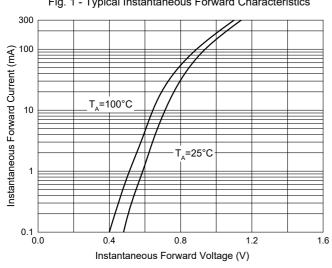
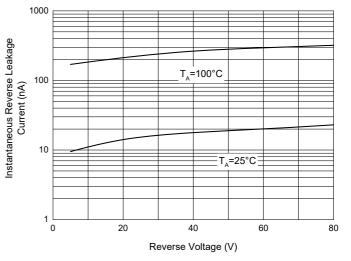
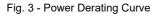
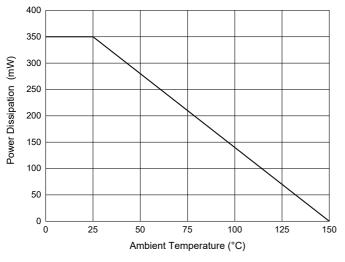


Fig. 1 - Typical Instantaneous Forward Characteristics

Fig. 2 - Typical Reverse Leakage Characteristics









Ordering Information

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

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