

#### **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)

# 350mW Surface Mount Switching Diode

### **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 <sub>RRM</sub>	RMS Reverse Voltage V <sub>R(RMS)</sub>	DC Blocking Voltage V <sub>R</sub>
MMBD4448	KA3	75V	53V	75V

Non-Repetitive Peak Reverse Voltage	$V_{RM}$	100V	
Working Peak Reverse Voltage	$V_{RWM}$	75V	
Forward Continuous Current	I <sub>FM</sub>	500mA	Note 2
Average Rectified Output Current	I <sub>o</sub>	250mA	
Non-Repetitive Peak Forward Surge Current	I <sub>FSM</sub>	2A 4A	@ t<=1.0s @ t=1.0us
Power Dissipation	$P_d$	350mW	Note 2

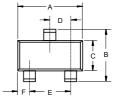
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

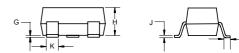
2. Valid provided that terminals are kept at ambient temperature

#### Internal Structure



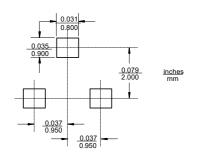
## SOT-23





DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	INOTE
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	
K	0.014	0.020	0.35	0.51	
L	0.007	0.020	0.20	0.50	

#### **Suggested Solder Pad Layout**



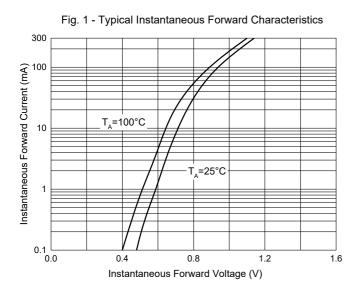


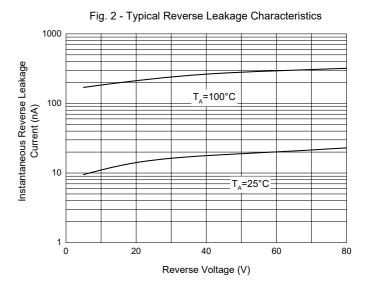
## Electrical Characteristics @ 25°C Unless Otherwise Specified

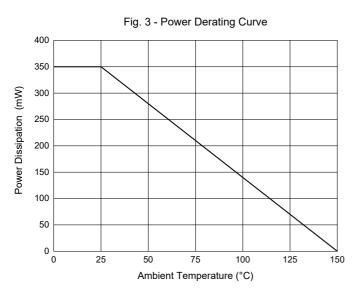
Forward Voltage	$V_{FM}$	0.720V(Max.) 0.855V(Max.) 1.000V(Max.) 1.250V(Max.)	I <sub>F</sub> =5.0mA I <sub>F</sub> =10.0mA I <sub>F</sub> =100.0mA I <sub>F</sub> =150.0mA I <sub>F</sub> =5.0mA
Maximum Peak Reverse Current	I <sub>RM</sub>	2.5μA 50μA 30μA 25nA	$V_R$ =75V $V_R$ =75V, $T_j$ =150°C $V_R$ =25V, $T_j$ =150°C $V_R$ =20V
Maximum Junction Capacitance	CJ	4.0pF	V <sub>R</sub> =0.0V,f=1.0MHz
Maximum Reverse Recovery Time	t <sub>rr</sub>	4.0ns	$I_F=10\text{mA}, I_R=10\text{mA}$ $I_{rr}=0.1*I_R, R_L=100\Omega$



#### **Curve Characteristics**









#### **Ordering Information**

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

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