

### **Features**

- · Designed For Applications Requiring High Voltage Capability
- · Low Current Leakage
- · Small Outline Surface Mount Package
- · Surface Mount Package Ideally Suited for Automatic Insertion
- Halogen Free. "Green" Device (Note 1)
- · Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating

### **Maximum Ratings**

- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C

MCC Part Number	Device Marking	Non-Repetitive Peak Reverse voltage V <sub>RM</sub>	Continuous Reverse Voltage V <sub>R</sub>
MMBD2004S	B6D	300V	240V

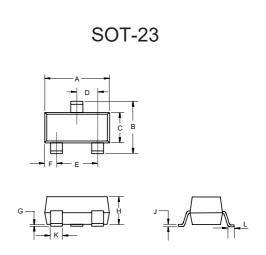
Continuous Forward Current	I <sub>F</sub>	225mA	
Peak Forward Surge Current	I <sub>FSM</sub>	1A 4A	@ t=1.0s @ t=1.0µs
Repetitive Peak Forward Curren	I <sub>FRM</sub>	625mA	
Power Dissipation	P <sub>d</sub>	250mW	

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

#### **Internal Structure**

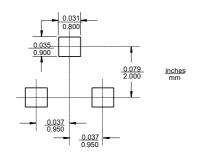


# 250mW 300Volt Dual Series Switching Diode



DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	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	
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



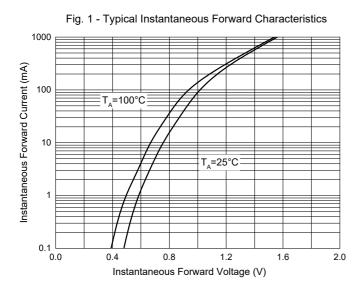


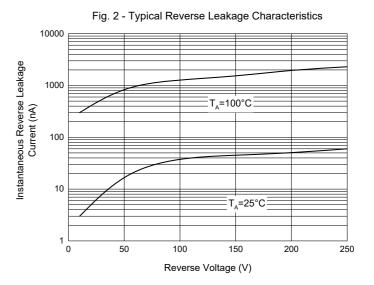
### Electrical Characteristics @ 25°C Unless Otherwise Specified

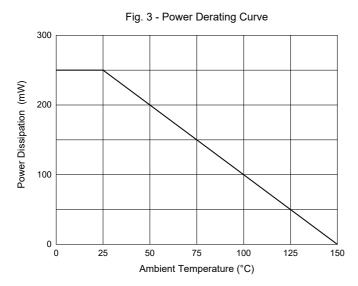
Minimum Reverse Breakdown Voltage	V <sub>BR</sub>	240V	I <sub>R</sub> =100μA
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	1.00V	I <sub>F</sub> =100.0mA
Maximum Instantaneous Reverse Current	I <sub>R</sub>	0.1μΑ	V <sub>R</sub> =240V
Maximum Junction Capacitance	C <sub>D</sub>	5.0pF	V <sub>R</sub> =0.0V,f=1.0MHz
Maximum Reverse Recovery Time	t <sub>rr</sub>	50.0ns	$I_F$ =30mA, $I_R$ =30mA $R_L$ =100 $\Omega$



### **Curve Characteristics**









### **Ordering Information**

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

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Rev.3-3-12012020

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