

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 Available Upon Request By Adding Suffix "-HF"
- · 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

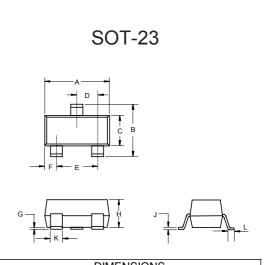
MCC Part Number	Device Marking	Non-Repetitive Peak Reverse voltage V _{RM}	Continuous Reverse Voltage V _R
MMBD2004S	B6D	300V	240V

Continuous Forward Current	I _F	225mA	
Peak Forward Surge Current	I _{FSM}	1A 4A	@ t=1.0s @ t=1.0µs
Repetitive Peak Forward Curren	I _{FRM}	625mA	
Power Dissipation	P_d	250mW	

Internal Structure

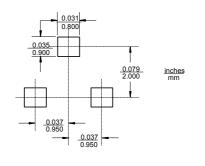


250mW 300Volt Dual Series Switching Diode



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	
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



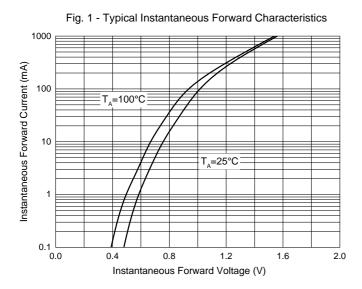


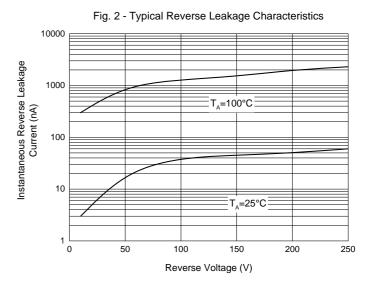
Electrical Characteristics @ 25°C Unless Otherwise Specified

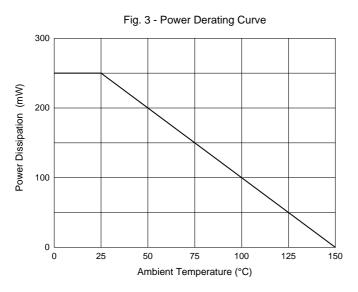
Minimum Reverse Breakdown Voltage	V_{BR}	240V	I _R =100μA
Maximum Instantaneous Forward Voltage	V _F	1.00V	I _F =100.0mA
Maximum Instantaneous Reverse Current	I _R	0.1μΑ	V _R =240V
Maximum Junction Capacitance	C _D	5.0pF	V _R =0.0V,f=1.0MHz
Maximum Reverse Recovery Time	t _{rr}	50.0ns	$I_F=30\text{mA}, I_R=30\text{mA}$ $R_L=100\Omega$



Curve Characteristics









Ordering Information

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

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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