

Features

- · High Conductance
- · High Reverse Breakdown Voltage Rating
- · Fast Switching Speed
- 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: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance:310°C/W Junction to Ambient

MCC Part Number	Device Marking	Peak Repetitive Reverse Voltage V _{RRM}	RMS Reverse Voltage V _{R(RMS)}	Continuous Reverse Voltage V _R
MMBD3004S	4P	350V	212V	240V

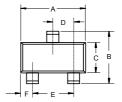
Continuous Forward Current	I _F	225mA	
Peak Forward Surge Current	I _{FSM}	1A 4A	@ t=1.0s @ t=1.0μs
Repetitive Peak Forward Curren	I _{FRM}	625mA	
Power Dissipation	P _d	410mW	T _A =25°C

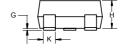
Internal Structure



410 mW High Voltage Switching Diode 240 Volts



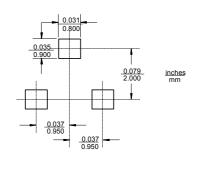






DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
E	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.014	0.020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

Suggested Solder Pad Layout



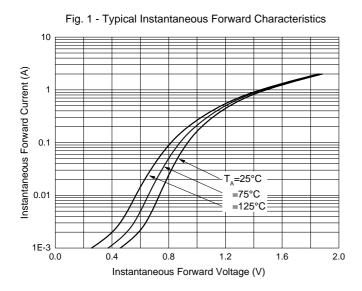


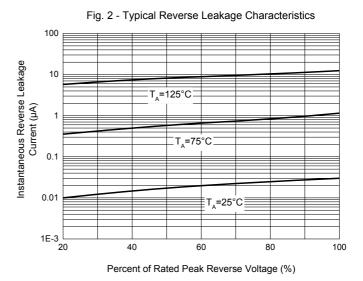
Electrical Characteristics @ 25°C Unless Otherwise Specified

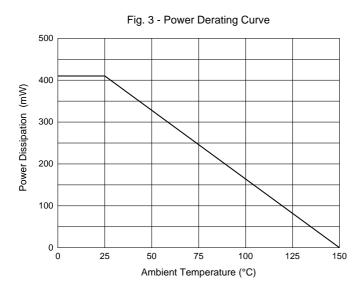
Minimum Reverse Breakdown Voltage	V_{BR}	350V	I _R =150μA
Maximum Instantaneous Forward Voltage	V _F	0.87V 1.00V 1.25V	I _F =20.0mA I _F =100.0mA I _F =200.0mA
Maximum Instantaneous Reverse Current	I _R	100nA 100μA	V _R =240V V _R =240V, T _j =150°C
Maximum Junction Capacitance	CJ	5.0pF	V _R =0.0V,f=1.0MHz
Maximum Reverse Recovery Time	t _{rr}	50.0ns	I_F =30mA, I_R =30mA I_{rr} =3mA, R_L =100 Ω



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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