

Features

- · Low Current Leakage
- Small Outline Surface Mount Package
- · Designed For Applications Requiring High Voltage Capability
- 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

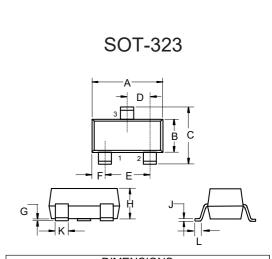
MCC Part Number	Device Marking	Peak Rev Volta V _{RM}	ge Voltage	
MMBD2004SWT	B6D	300\	/	240V
Continuous Forward Current	I _F	225mA		
Forward Surge Current	I _{FSM}	4.0A 1.0A	@t=1us @t=1s	S
Repetitive Peak Forward Curren	I _{FRM}	625mA		
Power Dissipation	P_{D}	250mW		

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		М	M	NOTE	
	MIN	MAX	MIN	MAX	NOIL	
Α	0.071	0.087	1.80	2.20		
В	0.045	0.053	1.15	1.35		
С	0.083	0.096	2.10	2.45		
D	0.026		0.65		TYP.	
Е	0.047	0.055	1.20	1.40		
F	0.012	0.016	0.30	0.40		
G	0.000	0.004	0.00	0.10		
Н	0.035	0.044	0.90	1.10		
J	0.002	0.010	0.05	0.25		
K	0.006	0.016	0.15	0.40		
L	0.010	0.018	0.26	0.46		

0.70 (mm) 0.90 1.90 0.65 0.65

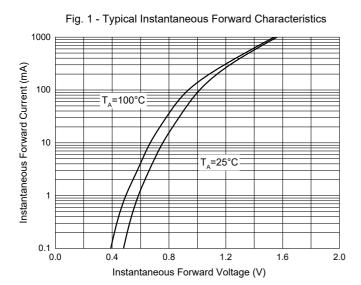


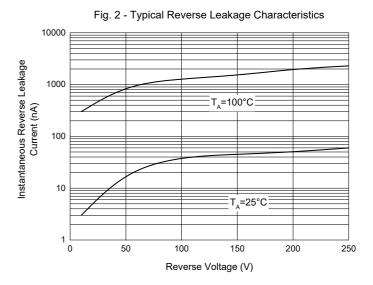
Electrical Characteristics @ 25°C Unless Otherwise Specified

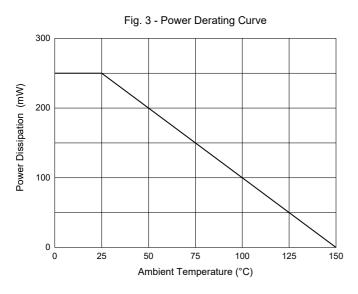
Minimum Breakdown Voltage	V _{BR}	240V	I _R =100.0μA
Maximum Instantaneous Forward Voltage	V _F	1.000V	I _F =100.0mA
Maximum Reverse voltage leakage current	I _R	0.1μΑ	V _R =240V
Maximum Diode Capacitance	C _D	5.0pF	V _R =0.0V,f=1.0MHz
Maximum Reverse Recovery Time	t _{rr}	50.0ns	I_F =30mA, I_R =30mA R_L =100 Ω



Curve Characteristics









Ordering Information

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

IMPORTANT NOTICE

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. **Micro Commercial Components Corp**. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold **Micro Commercial Components Corp**, and all the companies whose products are represented on our website, harmless against all damages. **Micro Commercial Components Corp**, products are sold subject to the general terms and conditions of commercial sale, as published at

https://www.mccsemi.com/Home/TermsAndConditions.

LIFE SUPPORT

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

CUSTOMER AWARENESS

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. MCC is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.

Rev.3-3-12012020 4/4 MCCSEMI.COM