

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- High Conductance
- High Reverse Breakdown Voltage Rating
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -65°C to +150°C
- Storage Temperature: -65°C to +150°C
- Typical Thermal Resistance: 357°C/W Junction to Ambient

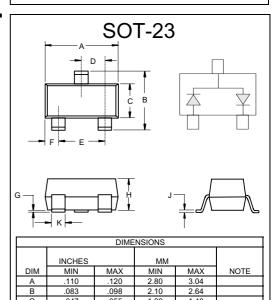
Rating	Symbol	Value	Unit
Continuous Reverse Voltage	V _R	300	V
Peak Repetitive Reverse Voltage	V _{RRM}	350	V
RMS Reverse Voltage	V _{R(RMS)}	212	V
Continuous Forward Current	I _F	225	mA
Repetitive Peak Forward Current	I _{FRM}	625	mA
Forward Surge Current $t_P = 1$ us	I _{FSM}	4	А
Forward Surge Current t _P =1s	I _{FSM}	1	А
Total Power Dissipation @T _A =25°C	P _D	350	mW

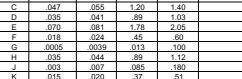
Electrical Characteristics @ 25°C Unless Otherwise Specified

Ratings	Symbol	Value	Test Condition
Maximum Forward Voltage	V _F	0.87 V 1.0 V 1.25 V	F = 20mA F = 100mA F = 200mA
Maximum Reverse Current	I _R	100 nA 100 μA	V _R =240V V _R =240V,T _J =150°C
Minimum Reverse Breakdown Voltage	$V_{(BR)}$	350 V	Ι _R =100μΑ
Maximum Junction Capacitance	Cτ	5.0 pF	V _R =0,f=1MHz
Maximum Reverse Recovery Time	t _{rr}	50 ns	$I_F=I_R=30$ mA, Rec. to $I_{RR}=0.1XI_R$, $R_L=100\Omega$

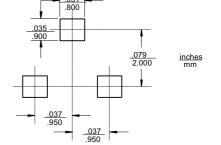
MMBD3004S

350 mW High Voltage Switching Diode 240 Volts



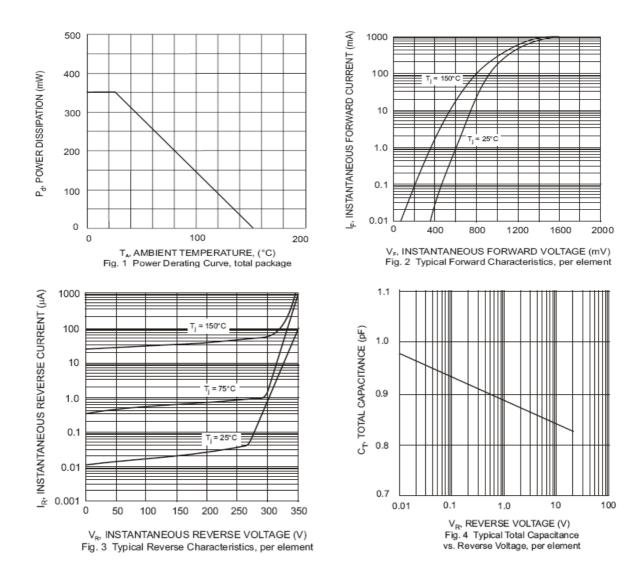


Suggested Solder Pad Layout



- www.mccsemi.com





ELECTRICAL CHARACTERISTICS CURVES

www.mccsemi.com



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.

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.

www.mccsemi.com