

Micro Commercial Components



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

Features

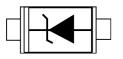
- Halogen free available upon request by adding suffix "-HF"
- For sensitive ESD protection
- Excellent clamping capability
- Low leakage
- ESD rating of class 3(>16KV)per Human Body Mode
- Fast response ,response time less than 1ns.
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

• Operating Junction & StorageTemperature: -55°C to +150°C

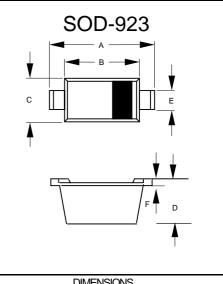
Parameter	Symbol	Limits	unit
IEC61000-4-2(ESD) Air		±15	
Contac	t	±8	KV
ESD Voltage per human body mode	9	16	KV
Peak Pulse Power(8/20us)	Ррр	100	w

Pin Configuration-Top View

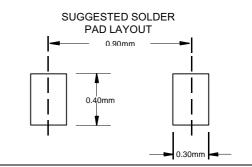


ESD5V0D9

ESD Protection Device



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
Α	.037	.041	0.95	1.05	
В	.030	.033	0.75	0.85	
С	.022	.026	0.55	0.65	
D	.014	.017	0.36	0.43	
Е	.006	.010	0.15	0.25	
F	.003	.007	0.07	0.17	



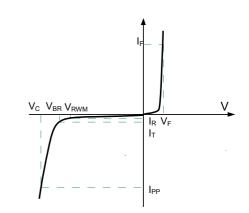
www.mccsemi.com



Micro Commercial Components

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

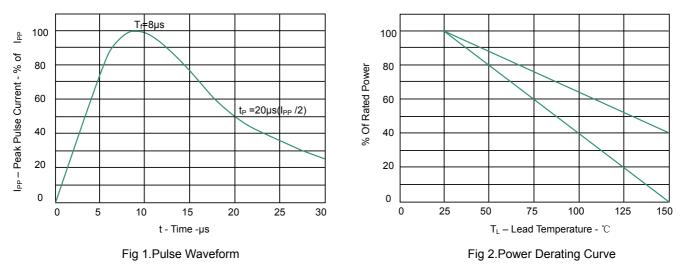
Symbol	I Parameter		
I _{PP}	Maximum Reverse Peak Pulse Current		
Vc	Clamping Voltage @ IPP		
V _{RWM}	Working Peak Reverse Voltage		
I _R	Maximum Reverse Leakage Current @ V _{RWM}		
V _{BR}	Breakdown Voltage @ I⊤		
IT	Test Current		
С	Capacitance @V _R =0 and f =1MHz		



Electrical characteristics per line@25[°]C (unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Working Voltage	V _{RWM}				5	V
Breakdown Voltage	V _{BR}	I _t =1mA	6	6.8	7.2	V
Reverse Leakage Current	I _R	V _{RWM} =5V		0.005	1	μA
Forward Voltage	VF	I _F =10mA		0.8		V
Clamping Voltage	Vc	I_{PP} =1A t_{P} = 8/20µS			9.0	V
Clamping Voltage	Vc	I_{PP} =5A t_P = 8/20µS			11.0	V
Junction Capacitance	Cj	V _R =0V f = 1MHz		30	40	pF
Junction Capacitance	C _j	V_R =2.5V f = 1MHz		22	30	pF

Typical Characteristics



www.mccsemi.com



Ordering Information :

Device	Packing		
Part Number-TP	Tape&Reel: 8Kpcs/Reel		

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

*****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