

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth Chatsworth, CA 91311

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ESDLC5V0D9

Features

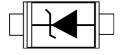
- Halogen free available upon request by adding suffix "-HF"
- For sensitive ESD protection
- Excellent clamping capability
- Low leakage
- ESD rating of class 3(>16KV)per Human Body Mode
- Fast response ,response time less than 1ns.
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant.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

Maximum Ratings

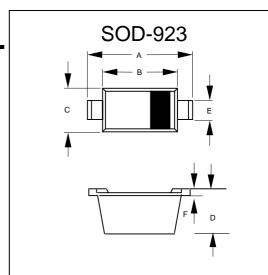
Operating Junction & Storage Temperature: -55°C to +150°C

Parameter		Symbol	Limits	unit
IEC61000-4-2(ESD)	Air		± 15	1//
Co	ontact		± 8	ΚV
ESD Voltage per human body	mode		16	KV
Peak Pulse Power(8/20us)		Ppp	100	W

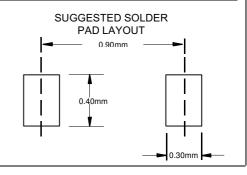
Pin Configuration-Top View



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	

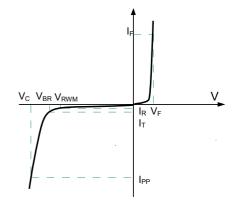




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ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Symbol	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}	V _{BR} Breakdown Voltage @ I _T		
I _T	I _T Test Current		
С	Capacitance @V _R =0 and f =1MHz		



Electrical characteristics per line@25 (unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Working Voltage	V_{RWM}				5	V
Breakdown Voltage	V_{BR}	I _t =1mA	5.4	7.0	8.5	V
Reverse Leakage Current	I _R	V _{RWM} =5V			1	μA
Forward Voltage	V _F	I _F =10mA		0.8	1.25	V
Clamping Voltage	V _C	I _{PP} =1A t _P = 8/20µS			9.8	V
Junction Capacitance	C _j	V _R =0V f = 1MHz		0.5		pF

Typical Characteristics

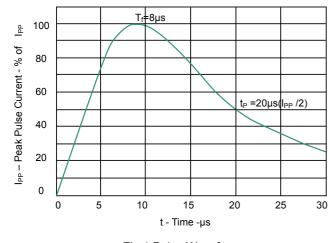


Fig 1.Pulse Waveform

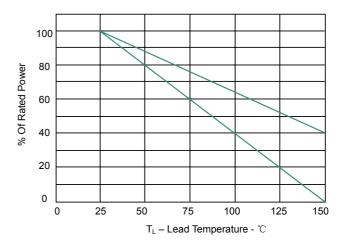


Fig 2.Power Derating Curve

www.mccsemi.com

Revision: D 2 of 3 **2013/01/01**



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Ordering Information:

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

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

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