



Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth Chatsworth, CA 91311

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Features

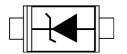
- Halogen free available upon request by adding suffix "-HF"
- For sensitive ESD protection
- Excellent clamping capability
- Low leakage
- ESD rating of class 3(>16KV)per Human Body Mode
- Fast response ,response time less than 1ns.
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. 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

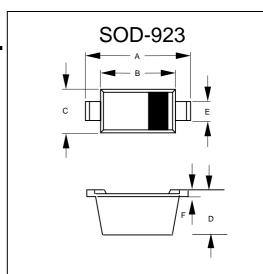
Parameter	Symbol	Limits	unit
IEC61000-4-2(ESD) Air		±15	KV
Contact		±8	۲V
ESD Voltage per human body mode		16	KV
Peak Pulse Power(8/20us)	Ppp	100	W

Pin Configuration-Top View

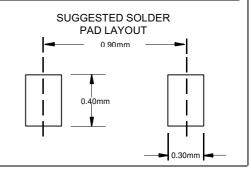


ESD7V0D9

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	

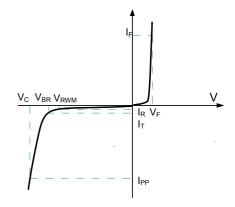




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ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Symbol	Parameter		
I _{PP}	Maximum Reverse Peak Pulse Current		
Vc	Clamping Voltage @ I _{PP}		
V _{RWM}	Working Peak Reverse Voltage		
I _R	Maximum Reverse Leakage Current @ V _{RWM}		
V _{BR}	Breakdown Voltage @ 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}				7	V
Breakdown Voltage	V _{BR}	I _t =1mA	8			V
Reverse Leakage Current	I _R	V _{RWM} =7V			1	μΑ
Forward Voltage	V _F	I _F =10mA		0.8		V
Clamping Voltage	V _C	I_{PP} =1A $t_P = 8/20 \mu S$			10.0	V
Clamping Voltage	V _C	I_{PP} =5A $t_P = 8/20 \mu S$			14.8	V
Junction Capacitance	C _j	V _R =0V f = 1MHz		25	30	pF
Junction Capacitance	C _j	V _R =2.5V f = 1MHz		18	25	pF

Typical Characteristics

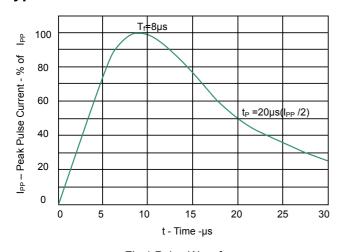


Fig 1.Pulse Waveform

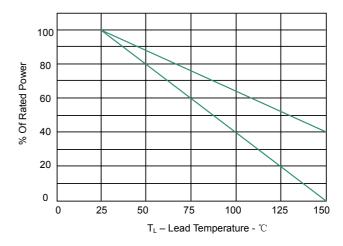


Fig 2.Power Derating Curve

www.mccsemi.com



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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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