

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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ESD3V3D9

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

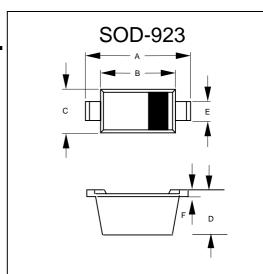
Operating Junction & Storage Temperature: -55°C to +150°C

Parameter		Symbol	Limits	unit
IEC61000-4-2(ESD)	Air		±15	ΚV
Co	ontact		± 8	٨v
ESD Voltage per human body mode			16	KV
Peak Pulse Power(8/20us)		Ррр	100	W

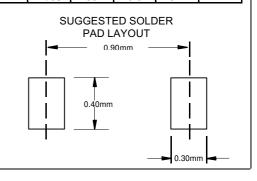
Pin Configuration-Top View



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	

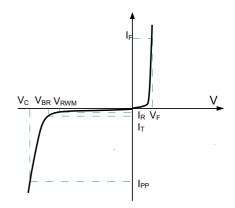




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ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Symbol	Parameter		
I _{PP}	Maximum Reverse Peak Pulse Current		
V _C	V _C Clamping Voltage @ I _{PP}		
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}				3.3	V
Breakdown Voltage	V _{BR}	I _t =1mA	5			V
Reverse Leakage Current	I _R	V _{RWM} =3.3V		0.005	1	μA
Forward Voltage	V _F	I _F =10mA		0.8		V
Clamping Voltage	Vc	$I_{PP}=1A$ $t_P = 8/20 \mu S$			5.8	V
Clamping Voltage	V _C	$I_{PP}=5A$ $t_P = 8/20 \mu S$			8.8	V
Junction Capacitance	C _j	V _R =0V f = 1MHz		35	50	pF
Junction Capacitance	C _j	V _R =2.5V f = 1MHz		20	27	pF

Typical Characteristics

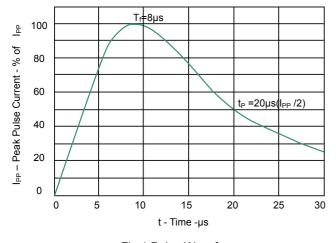


Fig 1.Pulse Waveform

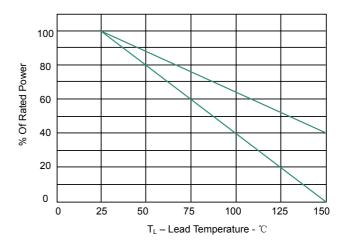


Fig 2.Power Derating Curve



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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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