

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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Micro Commercial Components



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

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Features

- Halogen free available upon request by adding suffix "-HF"
- For sensitive ESD protection
- Stand-off Voltage:5V
- Low leakage
- Low clamping voltage
- 500W peak pulse power (tp=8/20us)
- 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

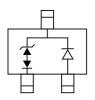
Maximum Ratings

Operating Junction Temperature: -55°C to +125°C

• StorageTemperature: -55°C to +125°C

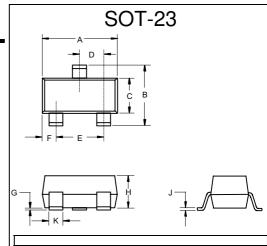
Parameter		Symbol	Limits	unit
IEC61000-4-2(ESD)	Air		±15	14/
	Contact		\pm 8	KV
IEC61000-4-5(lightning)			24	Α
Peak Pulse Power		Pd	500	W

Pin Configuration-Top View

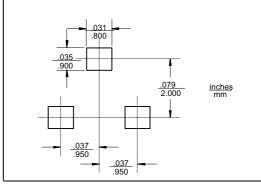


ESDLC5V0T2

5Volts ESD Protection Devices



	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.104	2.10	2.64	
С	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
Е	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
Н	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	



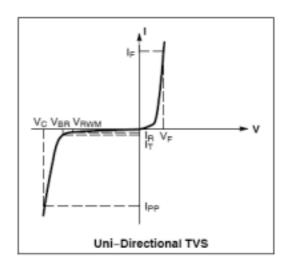


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ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

UNIDIRECTIONAL (Circuit tied to Pins 1 and 3 or 2 and 3)

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}	Breakdown Voltage @ I _T		
I _T	Test Current		
I _F	Forward Current		
V _F	Forward Voltage @ I _F		
P _{pk}	Peak Power Dissipation		
С	Capacitance @V _R =0 and f =1MHz		



ELECTRICAL CHARACTERISTICS ($T_A = 25^{\circ}C$ unless otherwise noted, $V_F = 0.9 \text{ V Max.}$ @ $I_F = 10\text{mA}$ for all types)

	V 00	I _R (ű A)	V _{BR} (V	V)		Vc	Vc	D + (141)	C (pF)
Device	V _{RWM} (V)	@ V _{RWM}	@ I _τ (No	te 2)	@IPP =1 A	@IPP=5A	P _{pk} ⁺ (W)	Pin 1 to 3	
	Max	Max	Min	Max	A	V	V	Max	T
	IVIAA	IVIAX	IVIIII	IVIAX	mA	V	v	Max	Тур

 V_{BR} is measured with a pulse test current I_{T} at an ambient temperature of 25°C.



TYPICAL CHARACTERISTICS

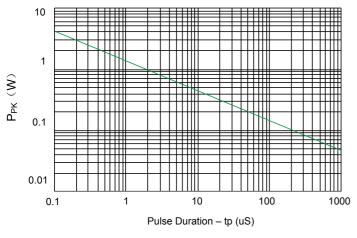


Fig1.Non-Repetitive Peak Pulse Power vs. Pulse time

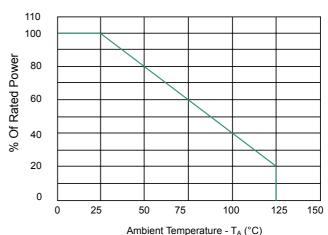


Fig2. Power Derating Curve

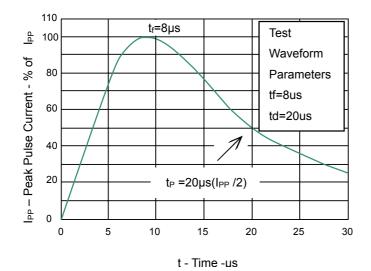


Fig 3.Pulse Waveform



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Ordering Information:

Device	Packing			
Part Number-TP	Tape&Reel: 3Kpcs/Reel			

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

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