imall

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!



Contact us

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Micro Commercial Components



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

Features

- For sensitive ESD protection
- Low reverse stand-off voltage:5V
- Low leakage
- Ultra-low clamping voltage
- IEC 61000-4-2 level 4 ESD protection
- 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	
Contact		±15	KV
ESD Voltage per human body mode		16	KV
ESD Voltage Machine Modele		400	V
Peak Pulse Power(8/20us Waveform	n) Ppp	52	W
Peak Pulse Current(8/20us Waveforr	n) Ipp	4	Α

Marking Code:



I=Device Code

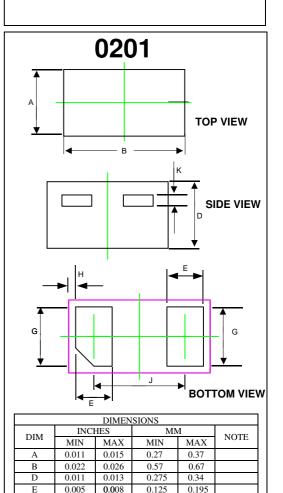
Front side

Pin Configuration



ESDBV5V0AE1

ESD Protection Device



0.009

0.014

0.36

0.001 REF.

0.002REF.

G H **0.0**12

0.017

SUGGESTED SOLDER PAD LAYOUT

0.40mn

0.225

0.365

0.030 REF

0.050REF

0.295

0.435

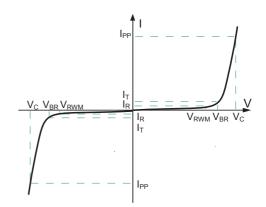
www.mccsemi.com



Micro Commercial Components

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}	Breakdown Voltage @ I _T	
IT	Test Current	



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

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Working Voltage(note1)	V _{RWM}				5	V
Breakdown Voltage	V _{BR}	It=1mA	5.6		8.0	V
Reverse Leakage Current	I _R	V _{RWM} =5V			1	uA
Clamping Voltage(note2)	Vc	I _{PP} =4A		10	13	V
Total Capacitance	C _{tot}	$V_R=0V$ f = 1MHz		2		pF

Note1: Other voltages available upon request. Note2: Non-repetitive current pulse 8/20us exponential decay waveform according to IEC61000-4-5.

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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 10Kpcs/Reel

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