

Micro Commercial Components



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

## **Features**

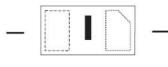
- For sensitive ESD protection
- Low reverse stand-off voltage:5V
- Low leakage
- Ultra-low clamping voltage
- IEC 61000-4-2 level 4 ESD protection
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture 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 model		16	KV
ESD Voltage Machine Modele		400	V
Peak Pulse Power(8/20us Waveform)	Ррр	52	W
Peak Pulse Current(8/20us Waveform	) Ipp	4	Α

## Marking Code:

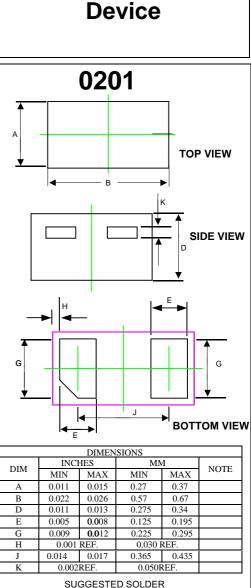


I=Device Code

Front side

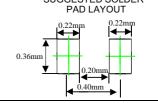
## **Pin Configuration**





ESDBV5V0AE1

**ESD** Protection



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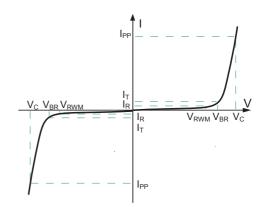
### **Revision:** E



#### **Micro Commercial Components**

#### ELECTRICAL CHARACTERISTICS (T<sub>A</sub> = 25°C unless otherwise noted)

Symbol	Parameter	
I <sub>PP</sub>	Maximum Reverse Peak Pulse Current	
Vc	Clamping Voltage @ IPP	
V <sub>RWM</sub>	Working Peak Reverse Voltage	
I <sub>R</sub>	Maximum Reverse Leakage Current @ V <sub>RWM</sub>	
V <sub>BR</sub>	Breakdown Voltage @ I <sub>T</sub>	
IT	Test Current	



## Electrical characteristics per line@25<sup>°</sup>C (unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Working Voltage(note1)	V <sub>RWM</sub>				5	V
Breakdown Voltage	V <sub>BR</sub>	I <sub>t</sub> =1mA	5.6		8.0	V
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =5V			1	uA
Clamping Voltage(note2)	Vc	I <sub>PP</sub> =4A		10	13	V
Total Capacitance	C <sub>tot</sub>	$V_R=0V$ 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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