

**Micro Commercial Components** 



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# **Features**

- Bi-directional ESD protection of one line
- Low reverse stand-off voltage:5V
- Low leakage
- Low reverse 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		±8	ΚV
ESD Voltage per human body model		16	KV
ESD Voltage Machine Modele		400	V
Peak Pulse Power(8/20us Waveform)	Ррр	50	W
Peak Pulse Current(8/20us Waveform)	lpp	5	Α

### Marking:

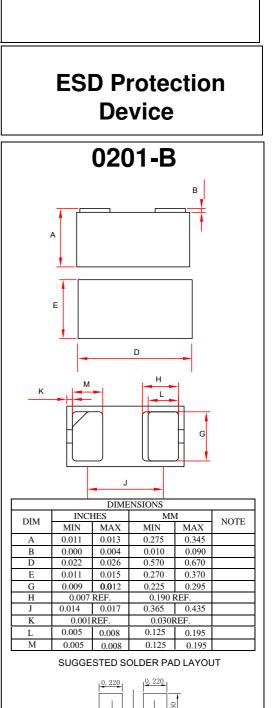


H = Device code

Front side

#### **Pin Configuration**





0.400

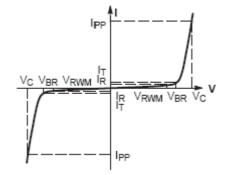
ESDBL5V0AE2

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#### 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>		
I <sub>T</sub>	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	5.8		8.0	V
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =5V			0.1	μA
Clamping Voltage(note2)	Vc	I <sub>PP</sub> =5A			10	V
Total Capacitance	C <sub>tot</sub>	$V_R=0V$ f = 1MHz		10		pF

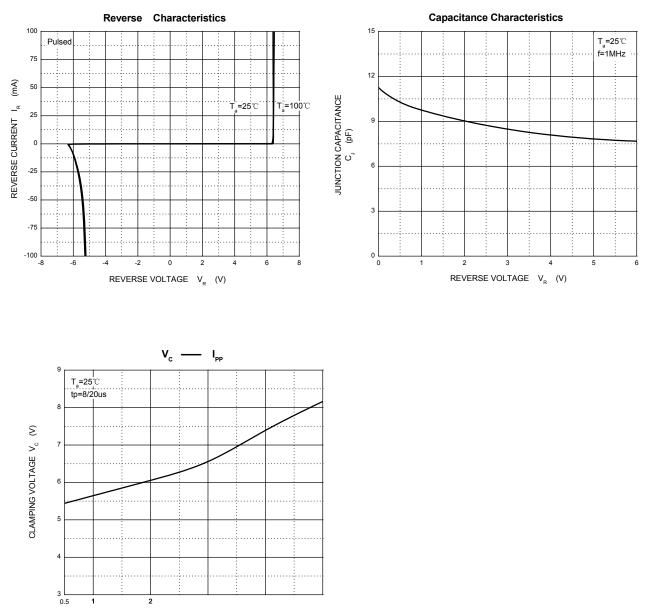
Note1: Other voltages available upon request.

Note2: Non-repetitive current pulse 8/20us exponential decay waveform according to IEC61000-4-5.

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## **Typical Characteristics**



REVERSE PEAK PULSE CURRENT  $I_{_{PP}}$  (A)

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## **Ordering Information :**

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

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