



Micro Commercial Components



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ESDBV5V0AE1

Features

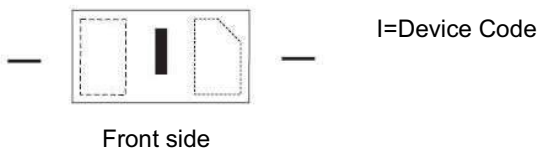
- For sensitive ESD protection
Low reverse stand-off voltage:5V
Low leakage
Ultra-low clamping voltage
IEC 61000-4-2 level 4 ESD protection
Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
Epoxy meets UL 94 V-0 flammability rating
Moisture Sensivity Level 1

Maximum Ratings

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

Table with 5 columns: Parameter, Symbol, Limits, unit. Rows include IEC61000-4-2(ESD) Air Contact, ESD Voltage per human body model, ESD Voltage Machine Modele, Peak Pulse Power(8/20us Waveform), Peak Pulse Current(8/20us Waveform).

Marking Code:

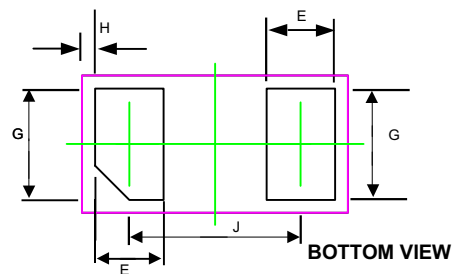
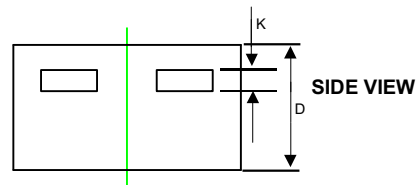
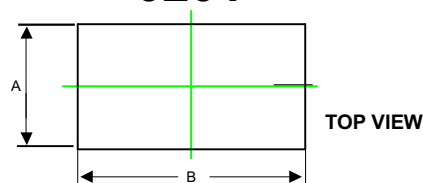


Pin Configuration



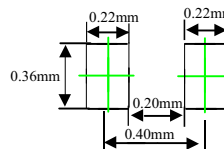
ESD Protection Device

0201



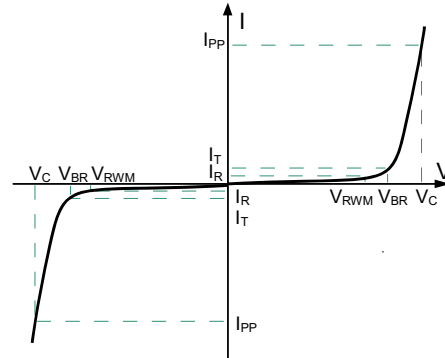
DIMENSIONS table with columns: DIM, INCHES (MIN, MAX), MM (MIN, MAX), NOTE. Rows include dimensions A through K.

SUGGESTED SOLDER PAD LAYOUT



**ELECTRICAL CHARACTERISTICS** ( $T_A = 25^\circ\text{C}$  unless otherwise noted)

Symbol	Parameter
$I_{PP}$	Maximum Reverse Peak Pulse Current
$V_C$	Clamping Voltage @ $I_{PP}$
$V_{RWM}$	Working Peak Reverse Voltage
$I_R$	Maximum Reverse Leakage Current @ $V_{RWM}$
$V_{BR}$	Breakdown Voltage @ $I_T$
$I_T$	Test Current



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

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Units
Working Voltage(note1)	$V_{RWM}$				5	V
Breakdown Voltage	$V_{BR}$	$I_t = 1\text{mA}$	5.6		8.0	V
Reverse Leakage Current	$I_R$	$V_{RWM} = 5\text{V}$			1	$\mu\text{A}$
Clamping Voltage(note2)	$V_C$	$I_{PP} = 4\text{A}$		10	13	V
Total Capacitance	$C_{tot}$	$V_R = 0\text{V}$ $f = 1\text{MHz}$		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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