



Micro Commercial Components



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ESDBL5V0AE1

ESD Protection Device

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 & 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-Top View



Pin Configuration



0201

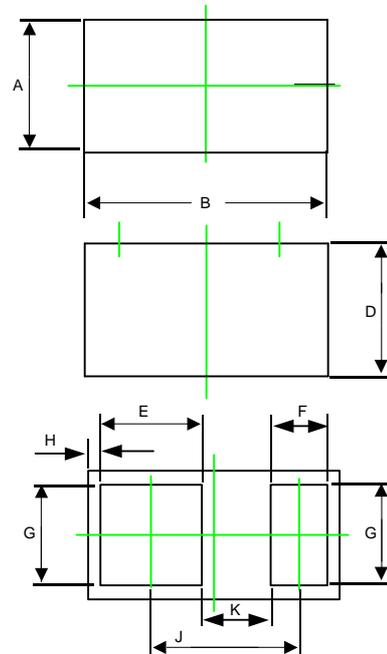
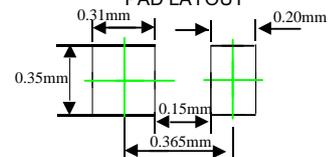


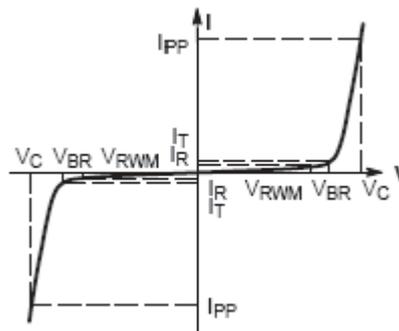
Table with 6 columns: DIM, INCHES (MIN, MAX), MM (MIN, MAX), NOTE. Rows A through K.

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}	$I_t = 1\text{mA}$	5.8		8.0	V
Reverse Leakage Current	I_R	$V_{RWM} = 5\text{V}$			0.1	A
Clamping Voltage(note2)	V_C	$I_{PP} = 5\text{A}$			12.5	V
Total Capacitance	C_{tot}	$V_R = 0\text{V}$ $f = 1\text{MHz}$		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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Ordering Information :

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

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