



**THE DATASHEET OF
ESDBL5V0AE1-TP**





Micro Commercial Components



Micro Commercial Components
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ESDBL5V0AE1

ESD Protection Device

Features

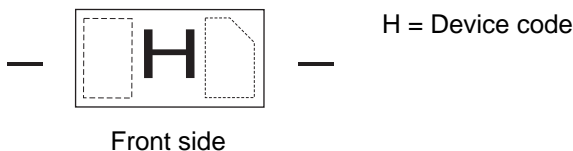
- For sensitive ESD protection
- Low reverse stand-off voltage:5V
- Low leakage
- Ultra-low clamping voltage
- IEC 61000-4-2 level 4 ESD protection
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture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

Maximum Ratings

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

Parameter	Symbol	Limits	unit
IEC61000-4-2(ESD) Air Contact		±30 ±30	KV
ESD Voltage per human body model		16	KV
ESD Voltage Machine Modele		400	V
Peak Pulse Power(8/20us Waveform)	Ppp	62.5	W
Peak Pulse Current(8/20us Waveform)	Ipp	5	A

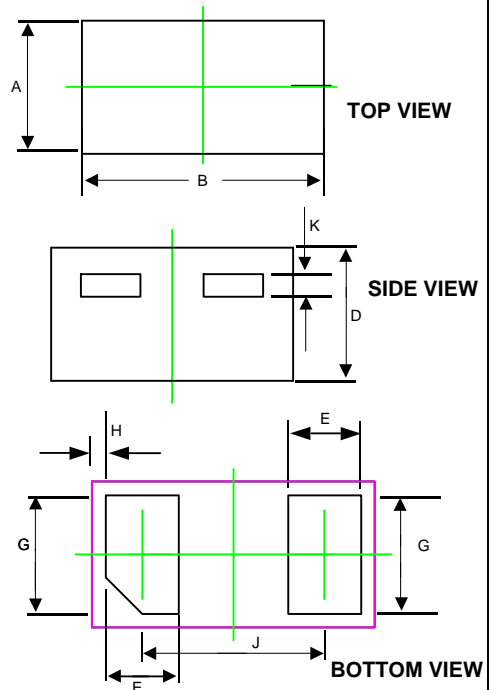
Marking:



Pin Configuration

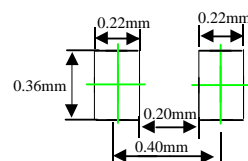


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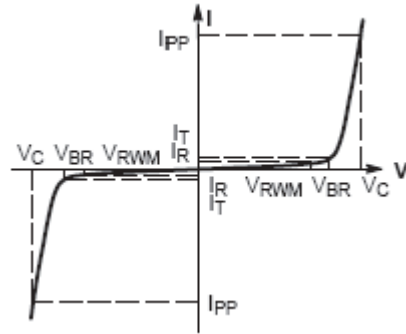
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.011	0.015	0.27	0.37	
B	0.022	0.026	0.57	0.67	
D	0.011	0.013	0.275	0.34	
E	0.005	0.008	0.125	0.195	
G	0.009	0.012	0.225	0.295	
H	0.001 REF.		0.030 REF.		
J	0.014	0.017	0.365	0.435	
K	0.002REF.		0.050REF.		

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	μA
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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