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ESDBL5V0AE1

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

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

Parameter		Symbol	Limits	unit
IEC61000-4-2(ESD)	Air		± 30	1/1/
	Contact		± 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)		lpp	5	Α

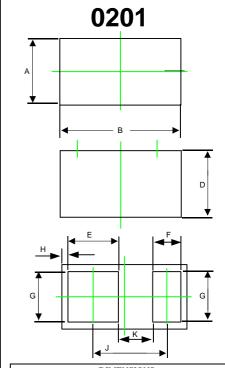
Marking-Top View



Pin Configuration



ESD Protection Device



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
A	0.011	0.015	0.27	0.37	
В	0.022	0.026	0.57	0.67	
D	0.011	0.013	0.27	0.34	
E	0.008	0.012	0.20	0.30	
F	0.004	0.007	0.10	0.19	
G	0.008	0.012	0.20	0.30	
Н	0.001 REF.		0.030 REF.		
J	0.013	0.016	0.33	0.40	
K	0.006REF.		0.150REF.		

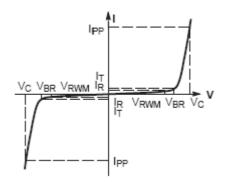
SUGGESTED SOLDER PAD LAYOUT



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ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Symbol	Parameter		
I _{PP}	Maximum Reverse Peak Pulse Current		
Vc	Clamping Voltage @ IPP		
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 (unless otherwise specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Working Voltage(note1)	V_{RWM}				5	V
Breakdown Voltage	V_{BR}	I _t =1mA	5.8		8.0	٧
Reverse Leakage Current	I _R	V _{RWM} =5V			0.1	Α
Clamping Voltage(note2)	V _C	I _{PP} =5A			12.5	V
Total Capacitance	C _{tot}	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.

Revision: A 2 of 3 **2013/04/24**



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Ordering Information:

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

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