



Micro Commercial Components 20736 Marilla Street Chatsworth Chatsworth, CA 91311

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ESDBV5V0AE1

Features

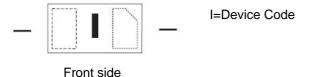
- For sensitive ESD protection
- Low reverse stand-off voltage:5V
- Low leakage
- Ultra-low clamping voltage
- IEC 61000-4-2 level 4 ESD protection
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture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

Maximum Ratings

• Operating Junction &StorageTemperature: -55°C to +150°C

Parameter		Symbol	Limits	unit
IEC61000-4-2(ESD)	Air		±15	10.7
	Contact		±15	KV
ESD Voltage per human body model			16	KV
ESD Voltage Machine Modele			400	V
Peak Pulse Power(8/20us Waveform)		Ppp	52	W
Peak Pulse Current(8/20us Waveform)		lpp	4	Α

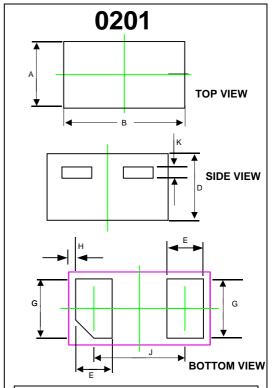
Marking Code:



Pin Configuration

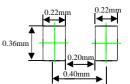


ESD Protection Device



	DIMENSIONS				
DIM	INCHES		MM		NOTE
DIM	MIN	MAX	MIN	MAX	NOIE
A	0.011	0.015	0.27	0.37	
В	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	
Н	0.001 REF.		0.030 REF.		
J	0.014	0.017	0.365	0.435	
K	0.002REF.		0.050REF.		

SUGGESTED SOLDER PAD LAYOUT

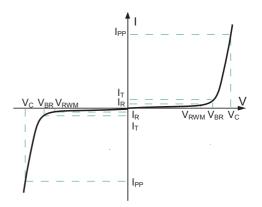




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ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

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	5.6		8.0	٧
Reverse Leakage Current	I _R	V _{RWM} =5V			1	μA
Clamping Voltage(note2)	V _C	I _{PP} =4A		10	13	V
Total Capacitance	C _{tot}	V _R =0V f = 1MHz		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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