



Micro Commercial Components 20736 Marilla Street Chatsworth Chatsworth, CA 91311

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ESDBU5V0AE1

Features

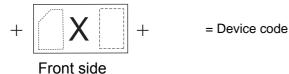
- Bi-directional ESD protection of one line
- Low capacitance: 0.9pF
- Reverse stand-off voltage: 5V
- IEC 61000-4-2 level 3 ESD protection
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

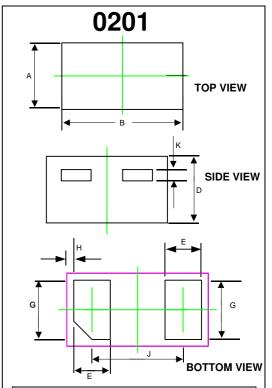
• Operating Junction &StorageTemperature: -55°C to +150°C

Parameter		Symbol	Limits	unit
IEC61000-4-2(ESD)	Air		± 15	ΚV
	Contact		± 15	۸v
ESD Voltage per human body model			16	K۷
ESD Voltage Machine Modele			400	V
Peak Pulse Power ⁽²⁾		Ppp	80	W
Peak Pulse Current ⁽²⁾		lpp	4	Α

Marking:

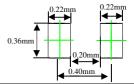


ESD Protection Device



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.		

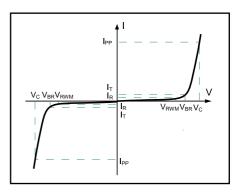
SUGGESTED SOLDER PAD LAYOUT





ELECTRICAL PARAMETER

Symbol	Parameter	
Vc	Clamping Voltage @ I _{PP}	
I _{PP}	Peak Pulse Current	
V_{BR}	Breakdown Voltage @ I⊤	
I _T	Test Current	
I _R	Reverse Leakage Current @ V _{RWM}	
V_{RWM}	Reverse Standoff Voltage	



V-I characteristics for a Bi-directional TVS

ELECTRICAL CHARACTERISTICS(T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Reverse stand off voltage	V _{RWM} (1)				5	V
Reverse leakage current	I _R	V _{RWM} =5V			1	μA
Breakdown voltage	V _(BR)	I _T =1mA	6.5	9.0		V
Clamping voltage	V _C (2)	Ipp=4A			20	V
Junction capacitance	C _J	V _R =0V,f=1MHz			0.9	pF

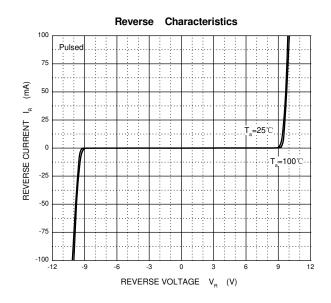
^{(1).}Other voltages available upon request.

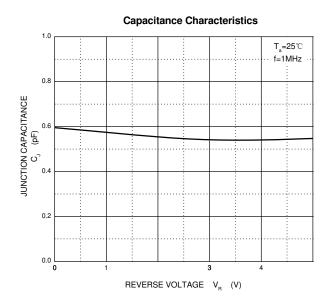
Revision: A 2 of 4 2016/02/29

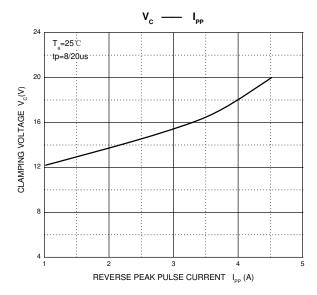
^{(2).} Non-repetitive current pulse 8/20µs exponential decay waveform according to IEC61000-4-5



TYPICAL CHARACTERISTICS









Ordering Information:

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

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