



Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth Chatsworth, CA 91311

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ESDBL5V0AE2

Features

- Bi-directional ESD protection of one line
- Low reverse stand-off voltage:5V
- Low leakage
- · Low reverse 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		±8	K۷
ESD Voltage per human body model			16	KV
ESD Voltage Machine Modele			400	V
Peak Pulse Power(8/20us Waveform)		Ppp	50	W
Peak Pulse Current(8/20u	lpp	5	Α	

Marking:



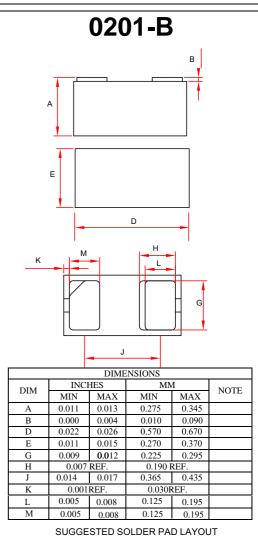
H = Device code

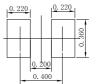
Front side

Pin Configuration



ESD Protection Device

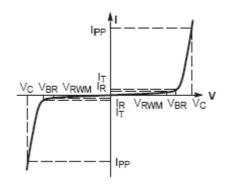






ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

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)

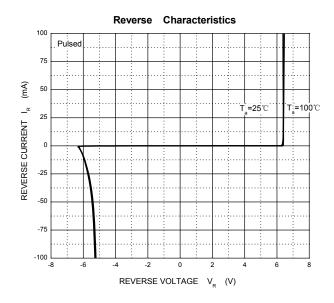
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Working Voltage(note1)	V_{RWM}				5	V
Breakdown Voltage	V_{BR}	I _t =1mA	5.8		8.0	٧
Reverse Leakage Current	I _R	V _{RWM} =5V			0.1	μA
Clamping Voltage(note2)	V _C	I _{PP} =5A			10	V
Total Capacitance	C _{tot}	V _R =0V f = 1MHz		10		pF

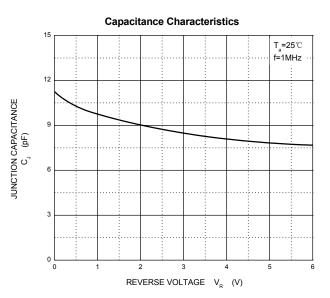
Note1: Other voltages available upon request.

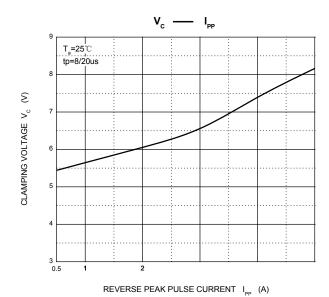
Note2: Non-repetitive current pulse 8/20us exponential decay waveform according to IEC61000-4-5.



Typical Characteristics









Ordering Information:

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

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