



Micro Commercial Components 20736 Marilla Street Chatsworth Chatsworth, CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

ESDBV5V0D5

Features

- Bi-directtional ESD protection of one line
- Low capacitance:3pF(Typ.)
- · Low leakage current
- 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
- Marking:HD

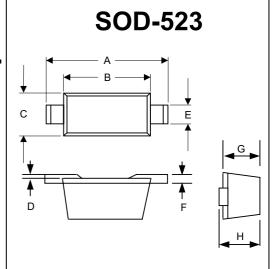
Maximum Ratings

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

Parameter		Symbol	Limits	unit
IEC61000-4-2(ESD)	Air		±15	1/1/
	Contact	$V_{ESD}^{(1)}$	±15	KV
ESD Voltage per human body model			16	KV
ESD Voltage Machine Modele			400	V
Peak Pulse Power(8/20us Waveform)		P _{PP} ⁽²⁾	52	W
Peak Pulse Current(8/20us Waveform)		$I_{PP}^{(2)}$	4	Α

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

ESD Protection Device



Pin Configuration

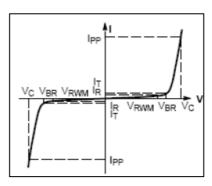


DIMENSIONS					
	INCHES				
DIM	MIN	MAX	MIN	MAX	NOTE
Α	. 59	.067	1.50	1.70	
В	. 43	.051	1.10	1.30	
С	. 30	.033	0.75	0.85	
D	. 01	.003	0.01	0.07	
Е	. 10	.014	0.25	0.35	
F	003	.006	0.08	0.15	
G	. 20	.028	0.50	0.70	
Н	020	.031	0.51	0.77	



ELECTRICAL PARAMETER

Symbol	Parameter	
Vc	Clamping Voltage @ I _{PP}	
I _{PP}	Peak Pulse Current	
V_{BR}	Breakdown Voltage @ I _T	
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(Ta=25℃ unless otherwise specified)

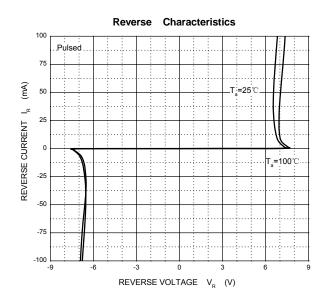
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Reverse stand off voltage	V _{RWM} (1)				5	V
Reverse leakage current	I _R	V _{RWM} =5V			1	μA
Breakdown voltage	V _(BR)	I _T =1mA	5.6		8	V
Clamping voltage	V _C (2)	I _{PP} =4A			13	V
Junction capacitance	CJ	V _R =0V,f=1MHz		3		pF

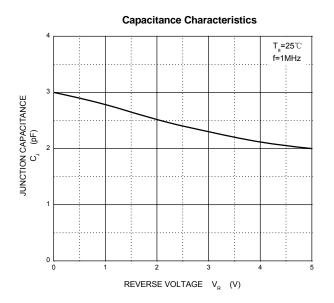
^{(1).} Other voltages available upon request.

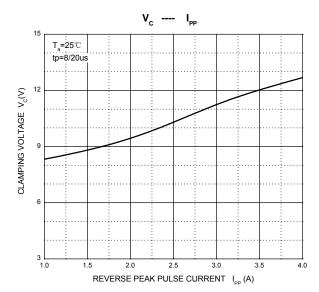
^{(2).}Non-repetitive current pulse 8/20µs exponential decay waveform according to IEC61000-4-5



TYPICAL CHARACTERISTICS









Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 8Kpcs/Reel

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