

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth Chatsworth, CA 91311

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ESDSLC5V0D3B

Features

- SOD-323 package
- Low clamping voltage
- ESD Protection:IEC61000-4-2:±30kv(Contact/Air)
- 350W peak pulse power (8/20 us)
- Protection one power line or I/O port
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"
- Marking:R5

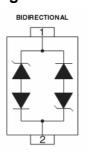
Maximum Ratings

Parameter	Symbol	Limits	unit
Peak pulse power 8/20us	P _{PK}	350	W
Peak pulse current 8/20us	I Pp	18	Α
Operating Temperature	T _j	-55~+125	°C
Storage temperature	T _{stg}	-55~+150	°C

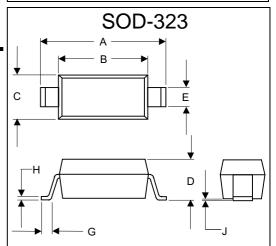
ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

Parameter	Symbol	Condition	min	Тур	max	Units
Reverse Working Voltage	VRWM				5.0	٧
Reverse Breakdown Voltage	VBR	It=1mA	6.0	7.0		V
Reverse Leakage Current	IR	VRWM=5V			0.5	uA
Clamping Voltage	Vc	IPP=1A tp=8/20us		8.0	12	٧
Clamping Voltage	Vc	IPP=18A tp=8/20us		19.5	28	V
Junction Capacitance	CJ	V _R =0V,f=1MHZ		2.0	3.0	pf

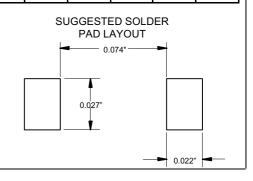
Pin Configuration-Top View



5.0 Volts ESD Protection Device

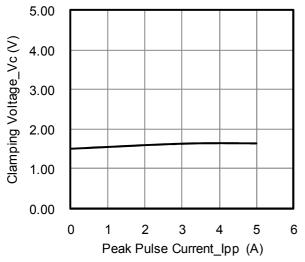


DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
Α	.090	.107	2.30	2.70	
В	.063	.071	1.60	1.80	
С	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
Е	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
Н	.004	.010	0.10	0.25	
J		.006		0.15	

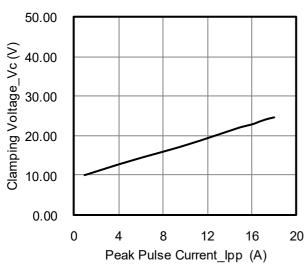




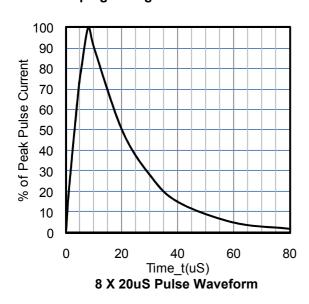
Typical Performance Characteristics (TA=25°C unless otherwise Specified)

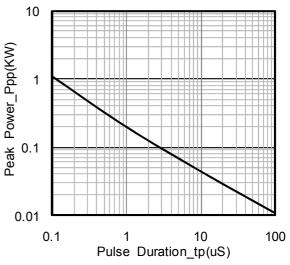


Junction Capacitance vs. Reverse Voltage

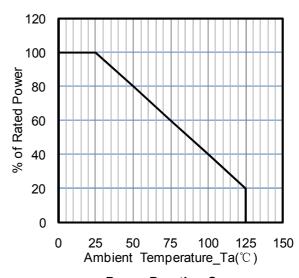


Clamping Voltage vs. Peak Pulse Current

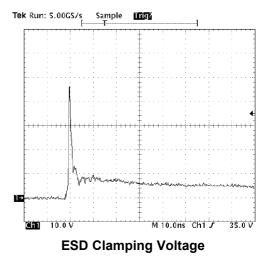




Peak Pulse Power vs. Pulse Time



Power Derating Curve



8 kV Contact per IEC61000-4-2



Ordering Information:

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note: Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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