



Micro Commercial Components



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20736 Marilla Street Chatsworth
Chatsworth, CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

ESDSL5C5V0D3B

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

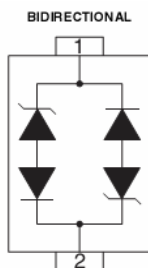
Maximum Ratings

Parameter	Symbol	Limits	unit
Peak pulse power 8/20us	P_{PK}	350	W
Peak pulse current 8/20us	I_{PP}	18	A
Operating Temperature	T_j	-55~+125	°C
Storage temperature	T_{stg}	-55~+150	°C

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

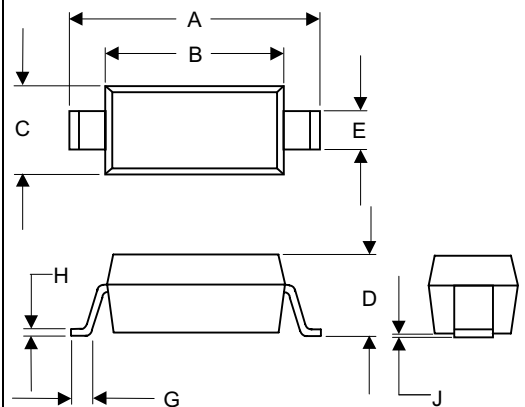
Parameter	Symbol	Condition	min	Typ	max	Units
Reverse Working Voltage	VRWM				5.0	V
Reverse Breakdown Voltage	VBR	$I_t = 1\text{mA}$	6.0	7.0		V
Reverse Leakage Current	IR	VRWM=5V			0.5	uA
Clamping Voltage	VC	$I_{PP} = 1\text{A}$ $t_p = 8/20\mu\text{s}$		8.0	12	V
Clamping Voltage	VC	$I_{PP} = 18\text{A}$ $t_p = 8/20\mu\text{s}$		19.5	28	V
Junction Capacitance	CJ	$V_R = 0\text{V}$, $f = 1\text{MHz}$		2.0	3.0	pf

Pin Configuration-Top View



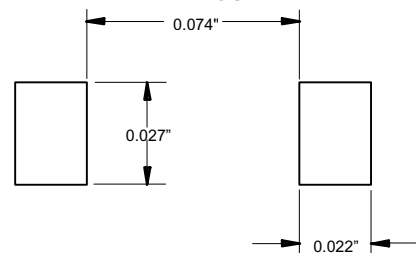
5.0 Volts ESD Protection Device

SOD-323

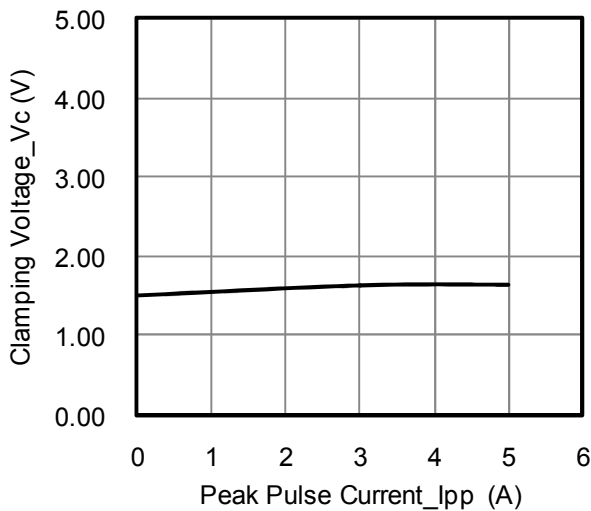


DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.063	.071	1.60	1.80	
C	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
E	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
H	.004	.010	0.10	0.25	
J	-----	.006	-----	0.15	

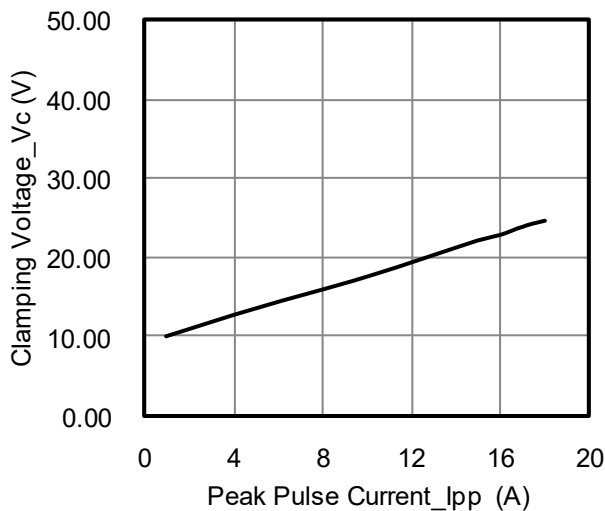
SUGGESTED SOLDER PAD LAYOUT



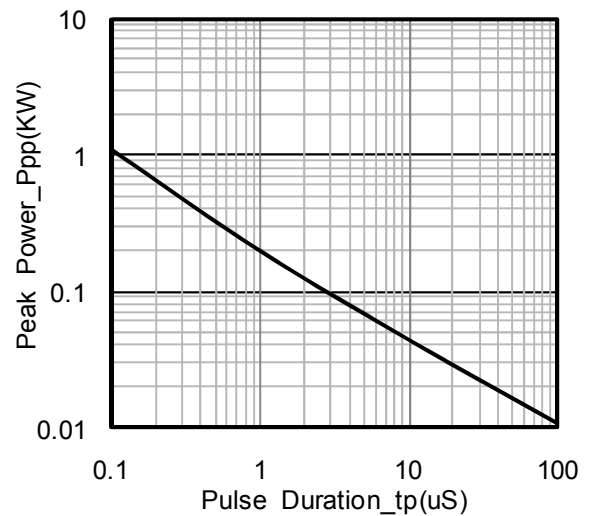
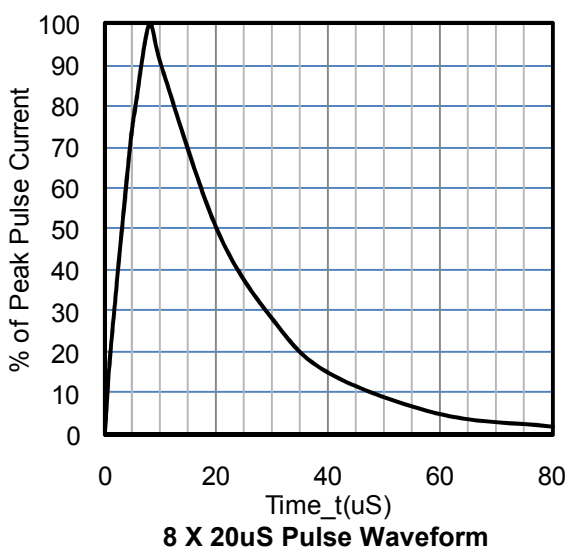
Typical Performance Characteristics (TA=25°C unless otherwise Specified)



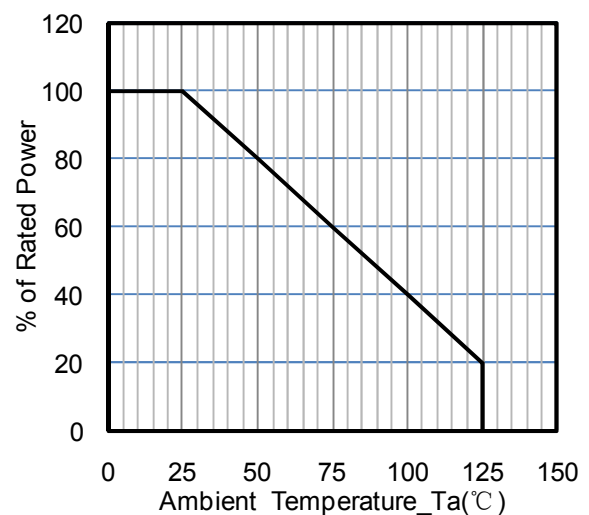
Junction Capacitance vs. Reverse Voltage



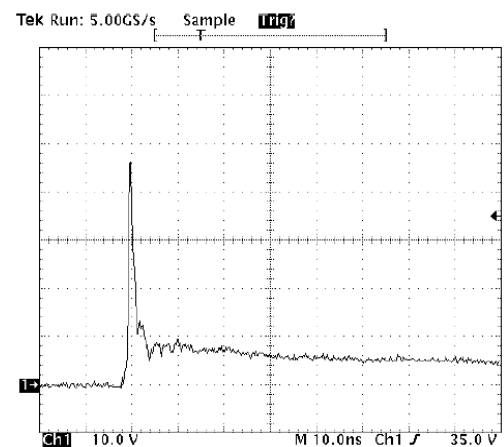
Clamping Voltage vs. Peak Pulse Current



Peak Pulse Power vs. Pulse Time



Power Derating Curve



ESD Clamping Voltage

8 kV Contact per IEC61000-4-2



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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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