



Micro Commercial Components



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ESDSL5V0AE2

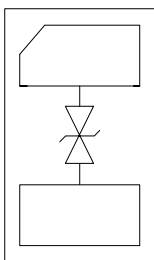
ESD Protection Device

Features

- Ultra low capacitance:0.26pF typical
- Low clamping voltage
- 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: ZZ

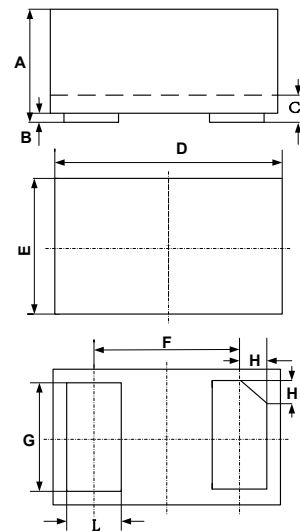
Maximum Ratings

Parameter	Symbol	Limits	unit
IEC61000-4-2(ESD) Air Contact		±20 ±20	KV
Peak Pulse Power(8/20us)	Ppk	125	W
Peak Pulse Current(8/20us)	Ipp	5	A
Operating Temperature Range	T _J	-55 to 125	°C
Storage Temperature Range	T _{stg}	-55 to 150	°C



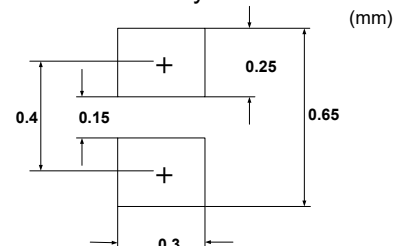
Circuit and Pin Schematic

0201-A



DIM	DIMENSIONS				NOTE
	INCHES		MM		
A	0.009	0.013	0.23	0.33	
B	0.000	0.002	0.00	0.05	
C	0.005	0.007	0.12	0.18	
D	0.022	0.026	0.55	0.65	
E	0.010	0.014	0.25	0.35	
F	0.014 REF.		0.355 REF.		
G	0.008	0.011	0.215	0.275	
H	0.003 REF.		0.079 REF.		
L	0.006	0.009	0.16	0.22	

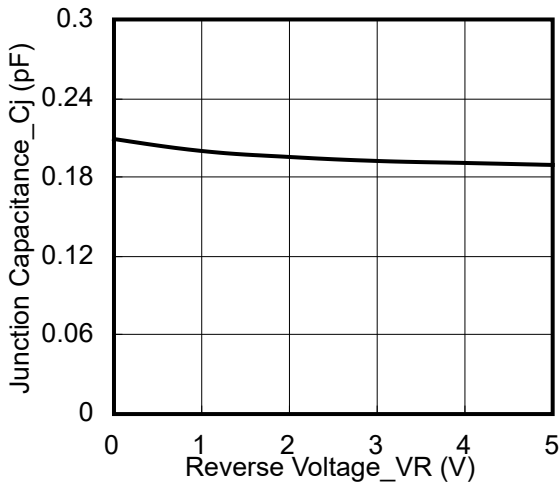
Suggested Solder Pad Layout



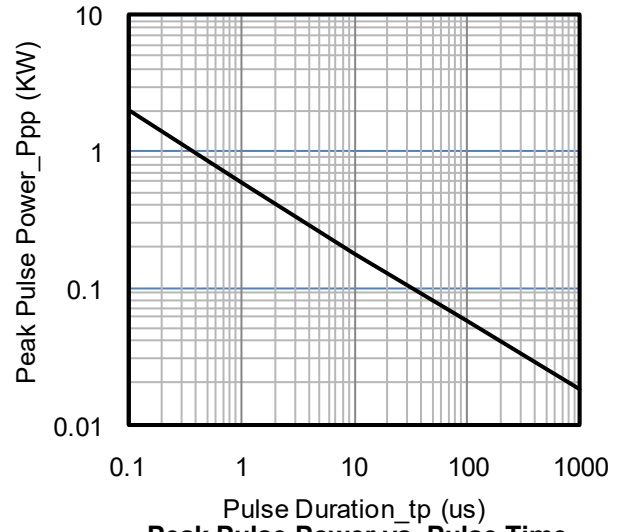
Electrical characteristics per line @25°C (unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Working Voltage	V _{RWM}			5	V	
Breakdown Voltage	V _{BR}	6			V	I _T = 1mA
Reverse Leakage Current	I _R		0.02	0.1	uA	V _{RWM} = 5V
Clamping Voltage	V _C			12	V	I _{PP} = 1A (8 x 20µs pulse)
Clamping Voltage	V _C			25	V	I _{PP} = 5A (8 x 20µs pulse)
Junction Capacitance	C _J		0.26	0.32	pF	V _R = 0V, f = 1MHz

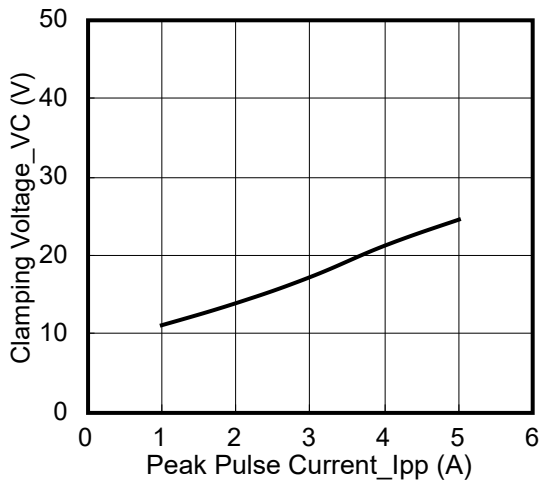
TYPICAL CHARACTERISTICS



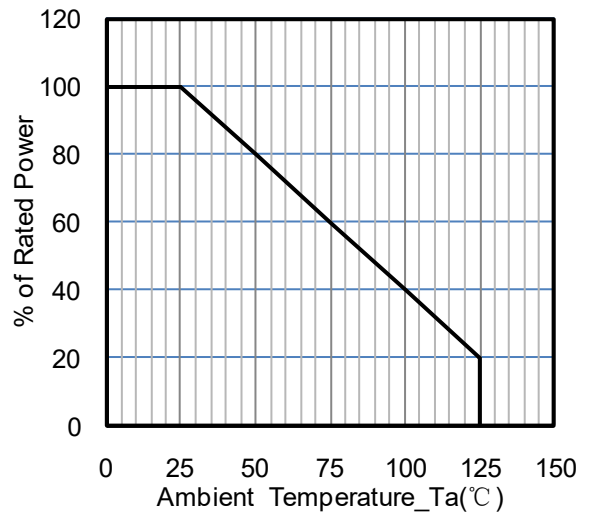
Junction Capacitance vs. Reverse Voltage



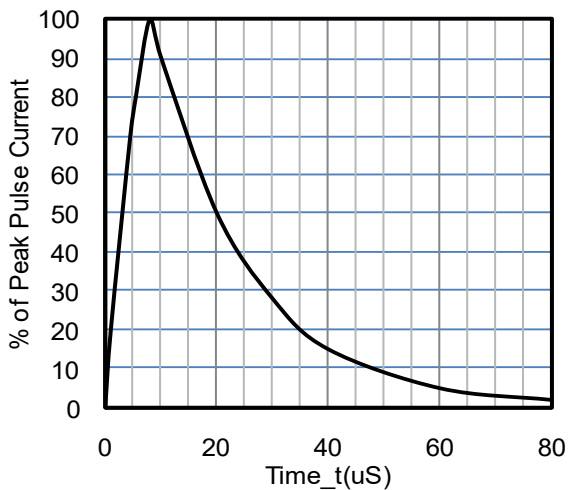
Peak Pulse Power vs. Pulse Time



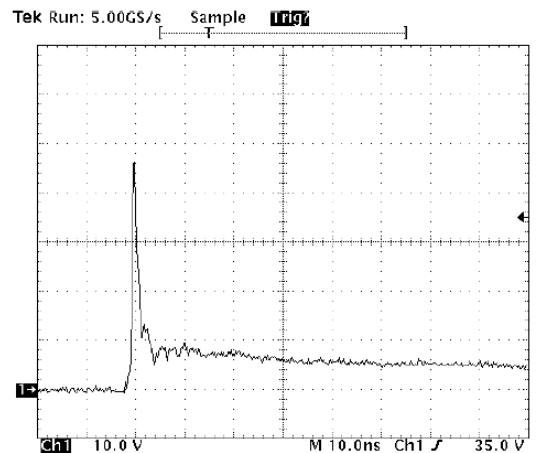
Clamping Voltage vs. Peak Pulse Current



Power Derating Curve



8 X 20uS Pulse Waveform



ESD Clamping Voltage

8 kV Contact per IEC61000-4-2

Ordering Information :

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

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