



Micro Commercial Components



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ESDLC3V3LB

Features

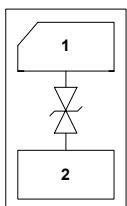
- Ultra low capacitance: 2.6pF typical
- Ultra low operating voltage: 3.3V
- Low clamping voltage
- IEC61000-4-4 (EFT) 40A (5/50ns) I
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"
- Marking:3X

Maximum Ratings

- Junction Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C

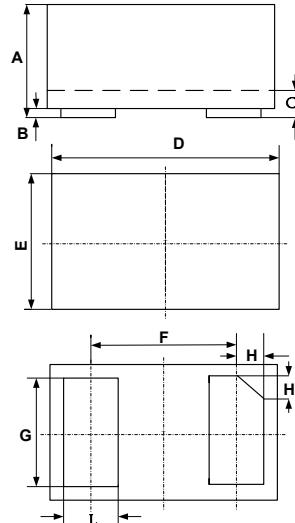
Parameter	Symbol	Limits	unit
IEC61000-4-2(ESD)	Contact Air	V_{ESD} ±8 ±15	KV

Circuit and Pin Schematic



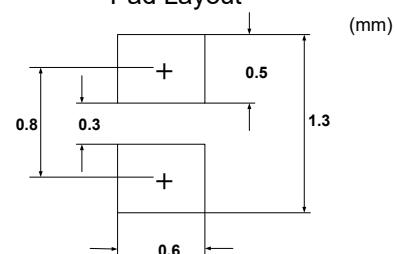
ESD Protection Device

DFN1006-2



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.018	0.022	0.45	0.55	
B	0.000	0.002	0.00	0.05	
C	0.005	0.007	0.12	0.18	
D	0.037	0.041	0.95	1.05	
E	0.022	0.026	0.55	0.65	
F	0.026 REF.		0.650 REF.		
G	0.018	0.022	0.45	0.55	
H	0.003	0.007	0.07	0.17	
L	0.008	0.012	0.20	0.30	

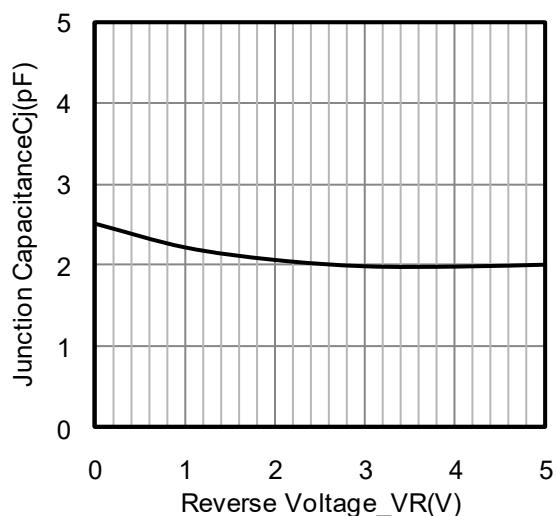
Suggested Solder Pad Layout



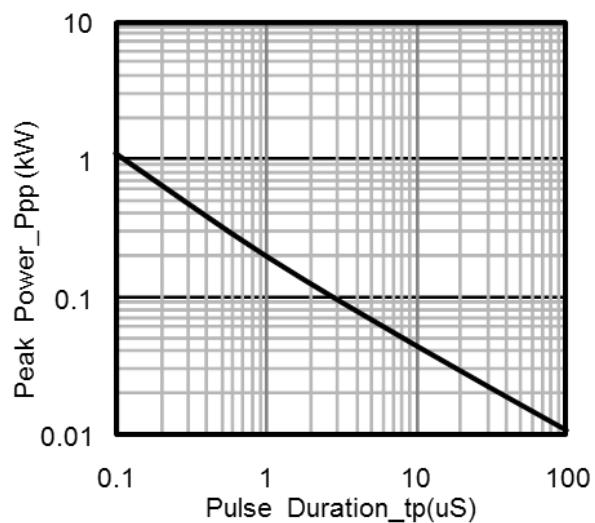
Electrical Characteristics (T_A=25°C unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Working Voltage	V _{RWM}			3.3	V	Pin 1 to Pin 2 or Pin 2 to Pin 1
Breakdown Voltage	V _{BR}	4.3		6.8	V	IT = 1mA, Pin 1 to Pin 2 or Pin 1 to Pin 2
Reverse Leakage Current	I _R			100	nA	V _{RWM} = 5V, Pin 1 to Pin 2 or Pin 1 to Pin 2
Clamping Voltage	V _C			11	V	IPP = 1A (8 x 20μs pulse), Pin 1 to Pin 2 or Pin 1 to Pin 2
Junction Capacitance	C _J		2.6	3.1	pF	VR = 0V, f = 1MHz

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

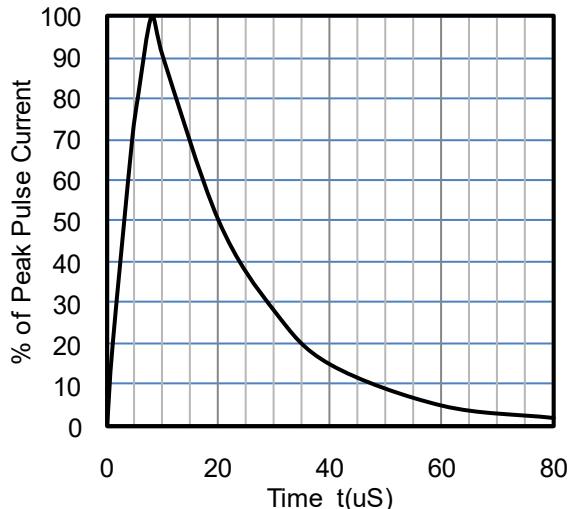


Junction Capacitance vs. Reverse Voltage

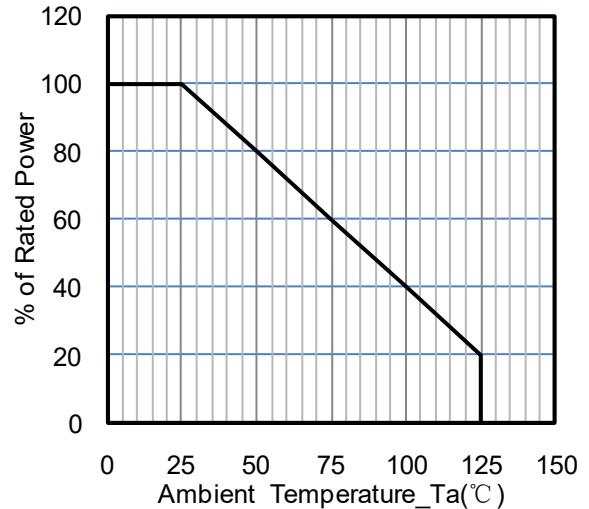


Peak Pulse Power vs. Pulse Time

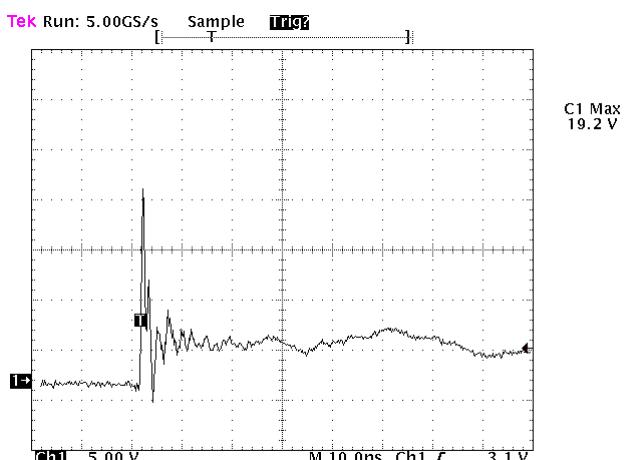
Typical Performance Characteristics ($T_A=25^\circ\text{C}$ unless otherwise Specified)



8 X 20uS Pulse Waveform



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: 10Kpcs/Reel

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

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