



# ESDSL16VLB

## ESD Protection Device

### Features

- Ultra Low Capacitance 0.7pF typical
- Operating Voltage: 16 V
- Low clamping voltage
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"
- Marking:ZZ

### Maximum Ratings

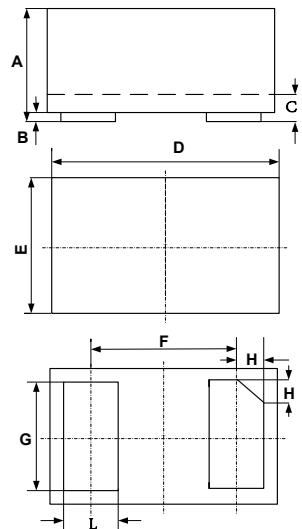
- Junction Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C

Parameter	Symbol	Limits	unit
IEC61000-4-2(ESD) Contact	$V_{ESD}$	$\pm 8$	KV
Peak Pulse Power (8/20us)	$P_{pk}$	30	W
Peak Pulse Current (8/20us)	$I_{pp}$	1	A

Internal Structure



### DFN1006-2



DIMENSIONS					
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

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**ELECTRICAL CHARACTERISTICS**( $T_a=25^{\circ}\text{C}$  unless otherwise specified)

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Parameter	Symbol	Min	Typ	Max	Unit	Test Condition
Reverse Working Voltage	$V_{RWM}$			16	V	
Breakdown Voltage	$V_{BR}$	18	24		V	$I_T = 1\text{mA}$
Reverse Leakage Current	$I_R$			0.1	$\mu\text{A}$	$V_{RWM} = 16\text{V}$
Clamping Voltage	$V_C$			30	V	$I_{PP} = 1\text{A}$ (8 x 20 $\mu\text{s}$ pulse)
Junction Capacitance	$C_J$		0.7	0.9	pF	$V_R = 0\text{V}$ , $f = 1\text{MHz}$



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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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