

# Features

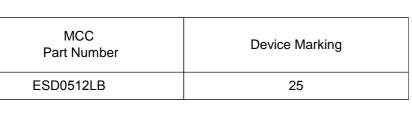
- Bi-Directional ESD Protection of One Line
- Low Channel Input Capacitance
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)

• Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS

## **Maximum Ratings**

- Operating Junction Temperature Range: -65°C to +150°C
- Storage Temperature Range: -65°C to +150°C
- Thermal Resistance: 500°C/W Junction to Ambient





IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
Peak Pulse Current(8/20µs)	I <sub>PP</sub>	10A
Peak Pulse Power (8/20us)	P <sub>PK</sub>	200W
Power Dissipation	P <sub>D</sub>	250mW

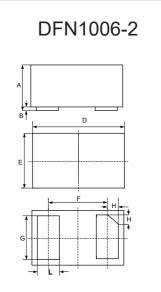
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

### **Circuit and Pin Schematic**



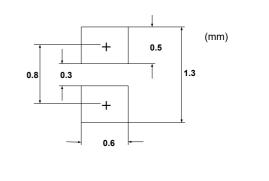


Line Denotes Pin 1



	DIMENSIONS					
DIM INCHE		HES	MM		NOTE	
DIN	MIN	MAX	MIN	MAX	NOTE	
Α	0.013	0.022	0.34	0.55		
В	0.000	0.002	0.00	0.05		
D	0.037	0.043	0.95	1.08		
Е	0.022	0.027	0.55	0.68		
F	0.0	026	0.6	650	TYP.	
G	0.016	0.024	0.40	0.60		
н	0.003	0.007	0.07	0.17		
L	0.008	0.012	0.20	0.30		

#### Suggested Solder Pad Layout





Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V <sub>RWM</sub>	Pin 1 to 2			12	V
		Pin 2 to 1			5	V
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>T</sub> =1mA, Pin 1 to 2	13		17	V
		I <sub>T</sub> =1mA, Pin 2 to 1	6		10	V
Reverse Leakage Current I <sub>R</sub>	I	V <sub>RWM</sub> =12V,Pin 1 to 2			0.2	μA
	V <sub>RWM</sub> =5V,Pin 2 to1			0.2	μA	
Clamping Voltage	Vc	I <sub>PP</sub> =10A, t <sub>P</sub> =8/20μs, Pin 1 to 2		20		V
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> =10A, t <sub>P</sub> =8/20μs, Pin 2 to 1		12		V
Junction Capacitance	CJ	V <sub>R</sub> =0V, f=1MHz		30	40	pF





# **Ordering Information**

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

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