

### Features

- Ultra Low Operating Voltage
- Ultra Low Clamping Voltage
- Halogen Free. "Green" Device (Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

### **Maximum Ratings**

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

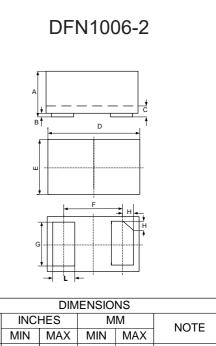
IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
IEC61000-4-4 (EFT) @5/50ns		40A
IEC61000-4-5(Surge) @8/20us	I <sub>PP</sub>	8A
Peak pulse power(tp=8/20us)	P <sub>PP</sub>	80W

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

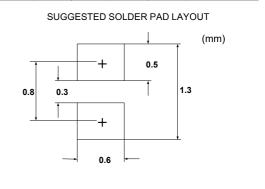
### **Internal Structure**

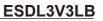






DIMENSIONS						
DIM	DIM INCHES		MM		NOTE	
DIN	MIN	MAX	MIN	MAX	NOTE	
Α	0.018	0.022	0.45	0.55		
В	0.000	0.002	0.00	0.05		
С	0.005	0.007	0.12	0.18		
D	0.037	0.041	0.95	1.05		
E	0.022	0.026	0.55	0.65		
F	0.0	026	0.6	650	TYP.	
G	0.018	0.022	0.45	0.55		
Н	0.003	0.007	0.07	0.17		
L	0.008	0.012	0.20	0.30		





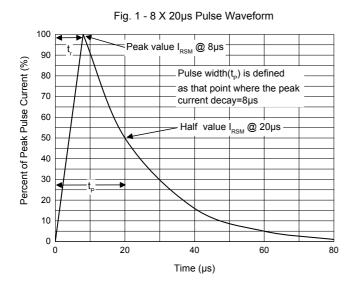


# Electrical Characteristics per line @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-Off Voltage	V <sub>RWM</sub>				3.3	V
Punch-Through Voltage	V <sub>PT</sub>	I <sub>τ</sub> =2μA	3.8			V
Snap-Back Voltage	V <sub>SB</sub>	I <sub>T</sub> =50mA	3.5			V
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =3.3V		0.005	0.05	μA
Clamping Voltage	Vc	I <sub>PP</sub> =1A, t <sub>P</sub> =8/20μs			6	V
Clamping Voltage	Vc	I <sub>PP</sub> =5A, t <sub>P</sub> =8/20μs			8	V
Junction Capacitance	CJ	$V_R = 0V, f = 1MHz$		12.5	25	pF



## **Curve Characteristics**





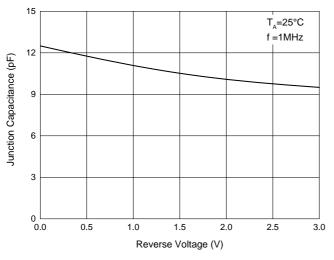
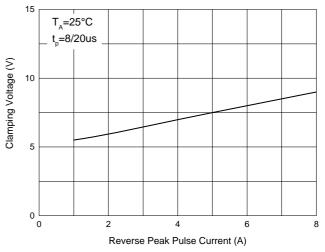
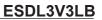


Fig. 2 - Pulse Derating Curve 120 100 Percent of Rated Power (%) 80 60 40 20 0 L 0 25 50 75 100 125 150 Ambient Temperature (°C)









## **Ordering Information**

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

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