

## Features

- Protects One Data or Power Line
- Ultra Low Clamping Voltage
- Ultra Low Leakage: nA Level
- 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**

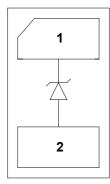
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
ESDLC3V3L	3P

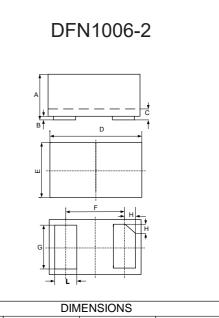
IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
IEC61000-4-4 (EFT) @5/50ns		40A
IEC61000-4-5(Surge) @8/20us	I <sub>PP</sub>	10A
Peak pulse power(tp=8/20us)	P <sub>PP</sub>	150W

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

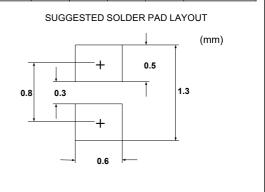
### **Circuit and Pin Schematic**







	DIMENSIONS				
DIM INCHES		HES	MM		NOTE
Divi	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	



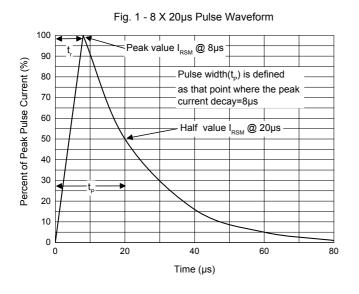


Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-Off Voltage	V <sub>RWM</sub>				3.3	V
Punch-Through Voltage	V <sub>PT</sub>	Ι <sub>τ</sub> =2μΑ	3.5			V
Snap-Back Voltage	V <sub>SB</sub>	I <sub>T</sub> =50mA	2.8			V
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =3.3V			0.5	μA
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> =1A, t <sub>P</sub> =8/20μs		7		V
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> =10A, t <sub>P</sub> =8/20μs			15	V
Junction Capacitance	CJ	$V_R = 0V, f = 1MHz$		22	30	pF
Junction Capacitance	CJ	$V_{R} = 3.3V, f = 1MHz$		14	20	pF

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



# **Curve Characteristics**





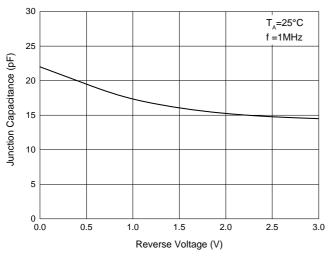
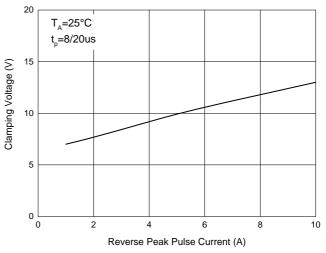


Fig. 2 - Pulse Derating Curve 120 100 Percent of Rated Power (%) 80 60 40 20 0 L 0 25 50 75 100 125 150 Ambient Temperature (°C)









## **Ordering Information**

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

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