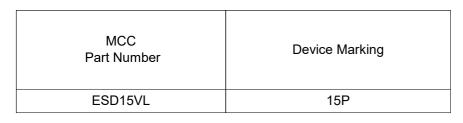


## Features

- Protects One Data or Power Line
- Low Clamping Voltage
- Ultra Low Leakage: nA Level
- Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

## **Maximum Ratings**

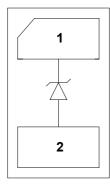
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C



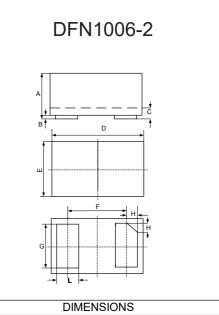
IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
IEC61000-4-4 (EFT) @5/50ns		40A
IEC61000-4-5(Surge) @8/20us	I <sub>PP</sub>	10A
Peak pulse power(tp=8/20us)	P <sub>PP</sub>	300W

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

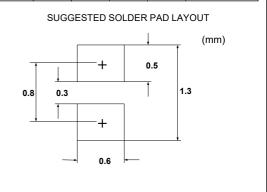
### **Circuit and Pin Schematic**







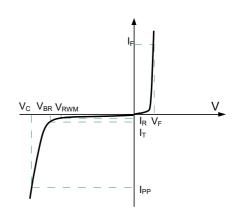
	DIMENSIONS				
DIM		MM		NOTE	
Divi	MIN	MAX	MIN	MAX	NOIL
Α	0.018	0.022	0.45	0.55	
В	0.000	0.002	0.00	0.05	
С	0.005	0.007	0.12	0.18	
D	0.037	0.041	0.95	1.05	
E	0.022	0.026	0.55	0.65	
F	0.0	026	0.6	650	TYP.
G	0.018	0.022	0.45	0.55	
Н	0.003	0.007	0.07	0.17	
L	0.008	0.012	0.20	0.30	





## **ELECTRICAL CHARACTERISTICS** (T<sub>A</sub> = 25°C unless otherwise noted)

Symbol	Parameter	
V <sub>RWM</sub>	Peak Reverse Working Voltage	
I <sub>R</sub>	Reverse Leakage Current @ $V_{RWM}$	
V <sub>BR</sub>	Breakdown Voltage @ I <sub>⊺</sub>	
Ι <sub>Τ</sub>	Test Current	
I <sub>PP</sub>	Maximum Reverse Peak Pulse Current	
V <sub>C</sub>	Clamping Voltage @ IPP	
P <sub>PP</sub>	Peak Pulse Power	
CJ	Junction Capacitance	
١ <sub>F</sub>	Forward Current	
VF	Forward Voltage @ I <sub>F</sub>	



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

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-Off Voltage	V <sub>RWM</sub>				15	V
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>T</sub> =1mA	16.7		20	V
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =15V			0.5	μA
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =10mA		0.8	1.2	V
Clamping Voltage	V <sub>c</sub>	I <sub>PP</sub> =1A, t <sub>P</sub> =8/20μs			22	V
Clamping Voltage	V <sub>c</sub>	I <sub>PP</sub> =10A, t <sub>P</sub> =8/20μs			30	V
Junction Capacitance	CJ	V <sub>R</sub> = 0V, f = 1MHz		65		pF



# **Curve Characteristics**

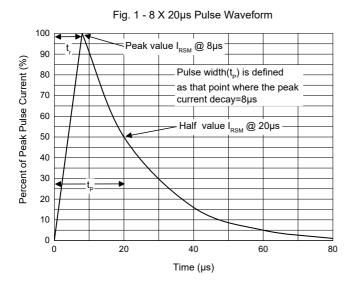
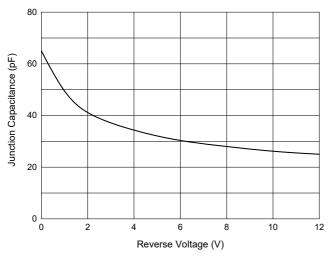
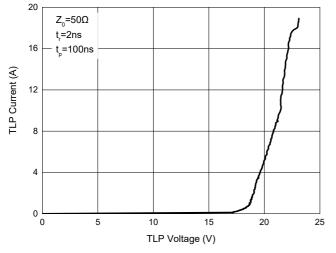


Fig. 3 - Capacitance Characteristics







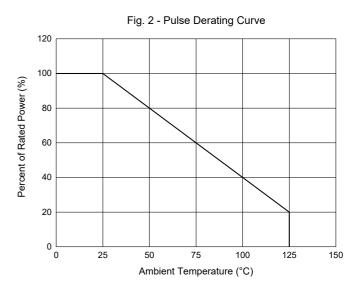
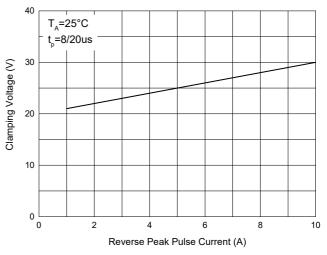


Fig. 4 - Clamping Voltage Characteristics





## **Ordering Information**

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

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