

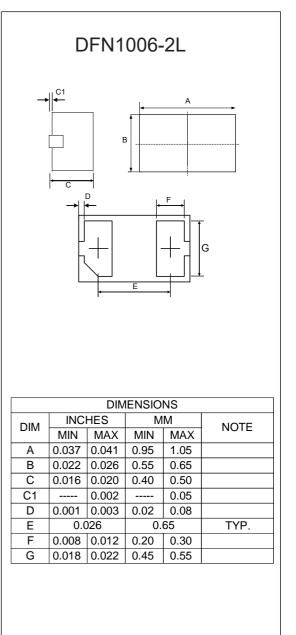
# Features

- Low Clamping Voltage
- Ultra Low 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 Compliant. See Ordering Information)

## **Maximum Ratings**

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





MCC Part Number	Device Marking		
ESDSLC5V0L2B	5N or BV		
IEC61000-4-2(ESD)	Air Contact	±20KV ±20KV	

	Contact	±20KV
IEC61000-4-4 (EFT) @5/50ns		40A
Peak Pulse Current(8/20µs)	I <sub>PP</sub>	3A
Peak Pulse Power (8/20µs)	P <sub>PK</sub>	40W

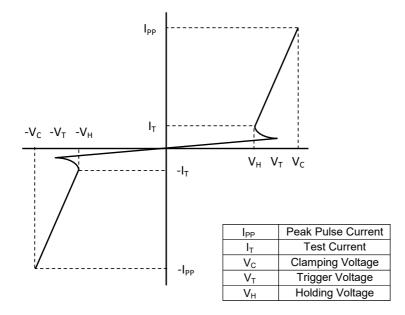
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

### **Internal Structure**

10 0 2



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



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

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V <sub>RWM</sub>				5.5	V
Trigger Voltage	V <sub>TRIG</sub>	High Voltage than V <sub>TRIG</sub> Guarantees the Protection Turn-On	6.5			V
Holding Voltage	V <sub>H</sub>	I <sub>H</sub> =1mA,Lower Voltage than V <sub>TRIG</sub> Guarantees the Protection Turn-Off	6.1	7	8.8	V
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =5.5V			50	nA
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> =1A, t <sub>P</sub> =8/20µs			13	V
Clamping Voltage	V <sub>C</sub>	I <sub>PP</sub> =3A, t <sub>P</sub> =8/20µs			15	V
Junction Capacitance	CJ	V <sub>R</sub> = 0V, f = 1MHz		0.15	0.2	pF





# **Curve Characteristics**

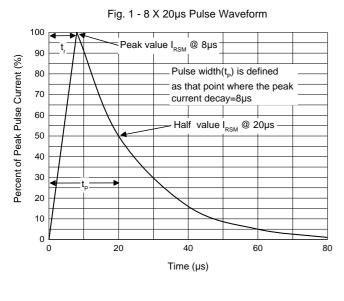


Fig. 3 - Power Derating Curve

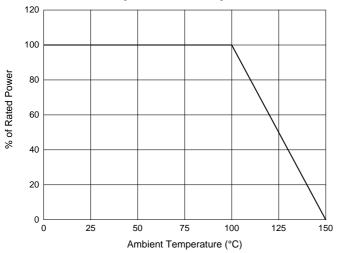
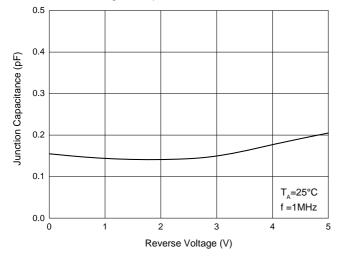


Fig. 5 - Capacitance Characteristics



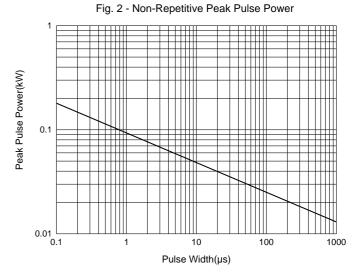
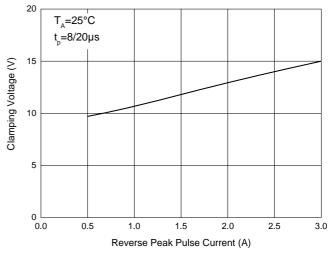


Fig. 4 - Clamping Voltage Characteristics





# **Ordering Information**

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

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