

## Features

- Uni-Directional ESD Protection of One Line
- Low Leakage Current
- Low Clamping Voltage
- 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**

	Air	±30KV		
IEC61000-4-2 (ESD)	Contact	±30KV		
Peak Pulse Current (8/20µs)	I <sub>PP</sub>	32A		
Peak Pulse Power (8/20µs) <sup>(Note2)</sup>	P <sub>PK</sub>	350W		
Operating Junction Temperature Range	TJ	-55°C to +125°C		
Storage Temperature Range	T <sub>STG</sub>	-55°C to +150°C		

#### Note :

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

2. Non-repetitive current pulse 8/20  $\mu s$  exponential decay waveform according to IEC61000-4-5.

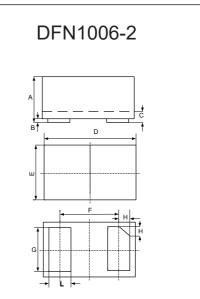
#### **Internal Structure**

Marking Code

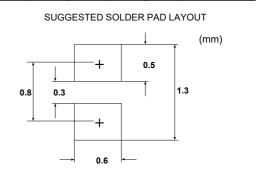






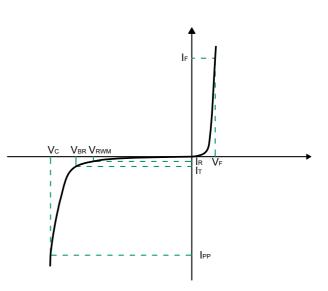


	DIMENSIONS				
DIM	INC	HES	MM		NOTE
DIN	MIN	MAX	MIN	MAX	NOTE
А	0.018	0.022	0.45	0.55	
В	0.000	0.002	0.00	0.05	
С	0.005	0.007	0.12	0.18	
D	0.037	0.041	0.95	1.05	
Е	0.022	0.026	0.55	0.65	
F	0.0	026	0.6	650	TYP.
G	0.018	0.022	0.45	0.55	
Н	0.003	0.007	0.07	0.17	
L	0.008	0.012	0.20	0.30	





Symbol	Parameter		
V <sub>RWM</sub>	Peak Reverse Working Voltage		
۱ <sub>R</sub>	Reverse Leakage Current @ VRWM		
V <sub>BR</sub>	Breakdown Voltage @ IT		
IT	Test Current		
I <sub>PP</sub>	Maximum Reverse Peak Pulse Current		
V <sub>C</sub>	Clamping Voltage @ IPP		
P <sub>PK</sub>	Peak Pulse Power		
CJ	Junction Capacitance		
I <sub>F</sub>	Forward Current		
V <sub>F</sub>	Forward Voltage @ IF		



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

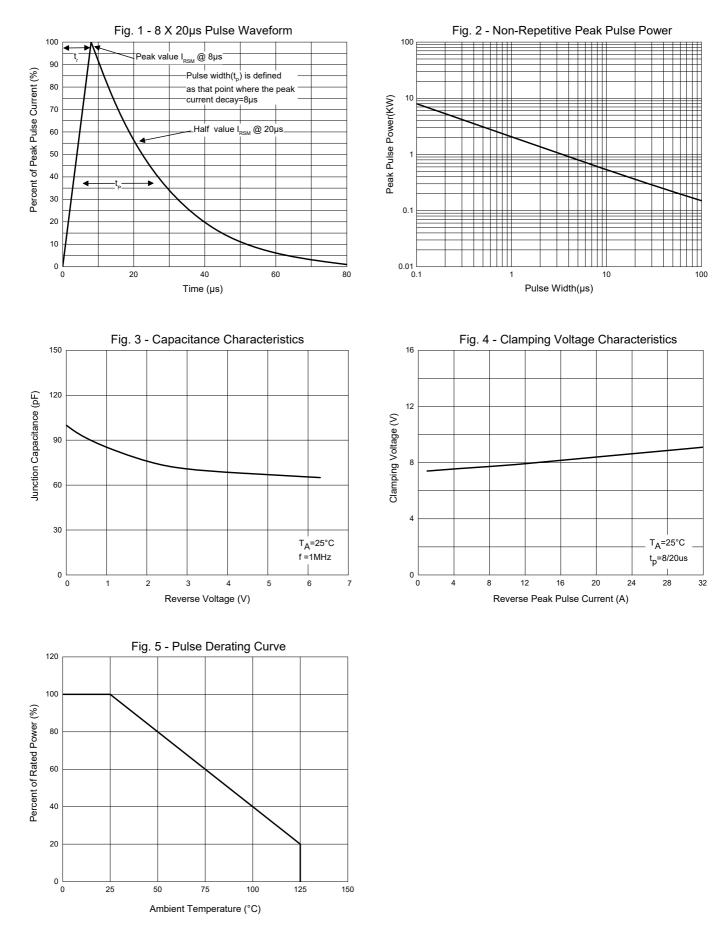
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V <sub>RWM</sub>				6.3	V
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>T</sub> =1mA	6.8	7.2		V
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =6.3V			0.3	μA
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =10mA		0.9	1.4	V
Clamping Voltage <sup>Note1</sup>	V <sub>c</sub>	I <sub>PP</sub> =1A, t <sub>P</sub> =8/20μs			9	V
Clamping Voltage <sup>Note1</sup>	Vc	I <sub>PP</sub> =32A, t <sub>P</sub> =8/20μs			12	V
Junction Capacitance	CJ	V <sub>R</sub> =0V, f=1MHz		100	150	pF

Note :

1.Non-repetitive current pulse 8/20µs exponential decay waveform according to IEC61000-4-5.



# **Curve Characteristics**





# **Ordering Information**

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

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