

Features

- 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

IEC61000-4-2 (ESD)	Air	±30KV		
1200 1000-4-2 (23D)	Contact	±30KV		
Peak Pulse Current (8/20µs)	I _{PP}	5A		
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	180W		
Operating Junction Temperature Range	TJ	-55°C to +125°C		
Storage Temperature Range	T _{STG}	-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 µs exponential decay waveform according to IEC61000-4-5.

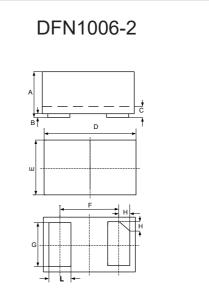
Internal Structure

Marking Code

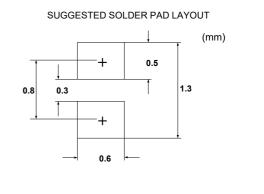






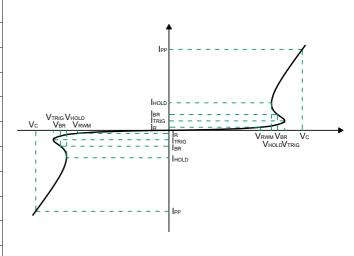


	DIMENSIONS				
DIM		MM		NOTE	
Divi	MIN	MAX	MIN	MAX	NOIL
Α	0.018	0.022	0.45	0.55	
В	0.000	0.002	0.00	0.05	
С	0.005	0.007	0.12	0.18	
D	0.037	0.041	0.95	1.05	
E	0.022	0.026	0.55	0.65	
F	0.0	026	0.6	650	TYP.
G	0.018	0.022	0.45	0.55	
Н	0.003	0.007	0.07	0.17	
L	0.008	0.012	0.20	0.30	





Symbol	Parameter	
V _{RWM}	Peak Reverse Working Voltage	
I _R	Reverse Leakage Current @ VRWM	
V _{BR}	Breakdown Voltage @ IT	
I _{PP}	Maximum Reverse Peak Pulse Current	
V _C	Clamping Voltage @ IPP	
V _{TRIG}	Reverse Trigger Voltage	
I _{TRIG}	Reverse Trigger Current	
V _{HOLD}	Reverse Holding Voltage	
I _{HOLD}	Reverse Holding Current	
CJ	Junction Capacitance	



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				24	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	27			V
Reverse Leakage Current	I _R	V _{RWM} =24V			0.2	μA
Clamping Voltage ^{Note1}	V _c	I _{PP} =1A, t _P =8/20μs			32	V
Clamping Voltage ^{Note1}	V _c	I _{PP} =5A, t _P =8/20μs			36	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		5		pF
Dynamic Resistance Note2	R_{DYN}	TLP, t _P =100ns		0.32		Ω

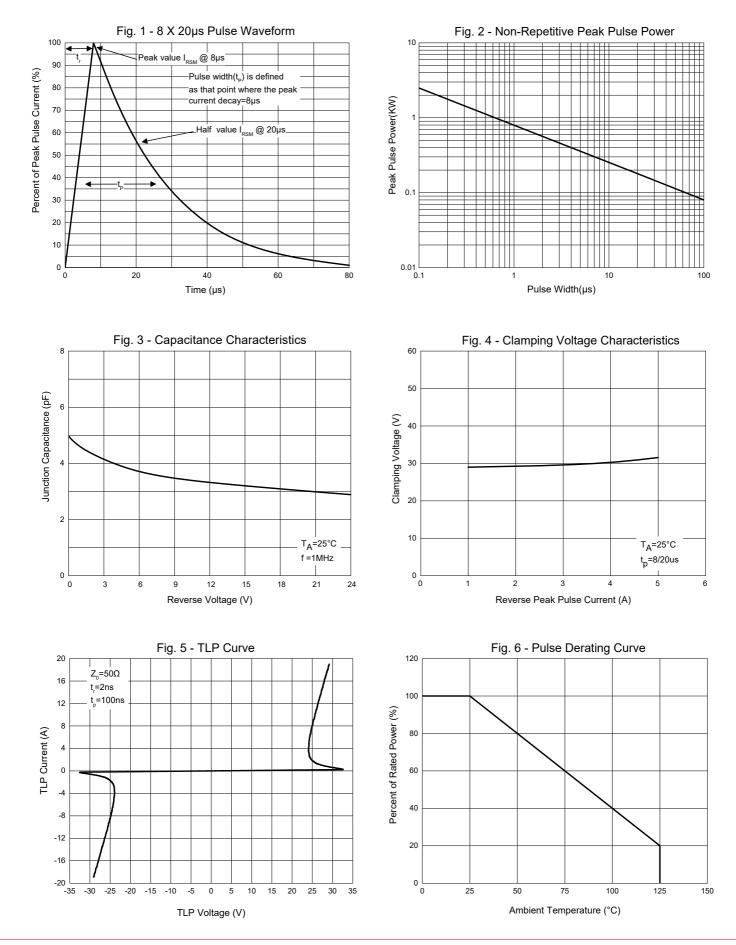
Note :

1.Non-repetitive current pulse 8/20 μ s exponential decay waveform according to IEC61000-4-5. 2.TLP parameter: Z₀=50 Ω , tp=100ns, tr=2ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.





Curve Characteristics





Ordering Information

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

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