

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	
IEC01000-4-2 (ESD)	Contact	±30KV	
Peak Pulse Current (8/20µs)	I _{PP}	20A	
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	300W	
Operating Junction Temperature Range	TJ	-55°C to +125°C	
Storage Temperature Range	T _{STG}	-55°C to +150°C	

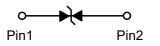
Note :

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

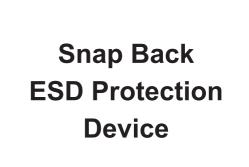
2. Non-repetitive current pulse 8/20 µs exponential decay waveform according to IEC61000-4-5.

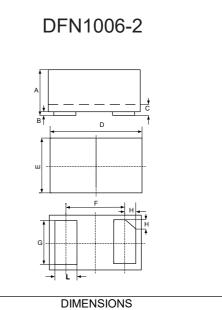
Internal Structure

Marking Code

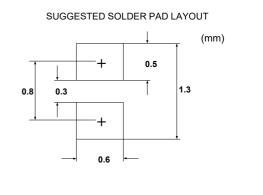






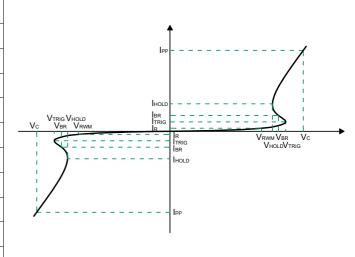


	DIMENSIONS					
		HES	ES MM		NOTE	
	MIN	MAX	MIN	MAX	NOIL	
Α	0.018	0.022	0.45	0.55		
В	0.000	0.002	0.00	0.05		
С	0.005	0.007	0.12	0.18		
D	0.037	0.041	0.95	1.05		
E	0.022	0.026	0.55	0.65		
F	0.0	026	0.6	650	TYP.	
G	0.018	0.022	0.45	0.55		
Н	0.003	0.007	0.07	0.17		
L	0.008	0.012	0.20	0.30		





Symbol	Parameter		
V _{RWM}	Peak Reverse Working Voltage		
ا _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}				7	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	7.5			V
Reverse Leakage Current	I _R	V _{RWM} =7V			0.5	μA
Clamping Voltage ^{Note1}	V _c	I _{PP} =1A, t _P =8/20μs			10	V
Clamping Voltage ^{Note1}	V _c	I _{PP} =20A, t _P =8/20μs			15	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		55		pF
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.01		Ω

Note :

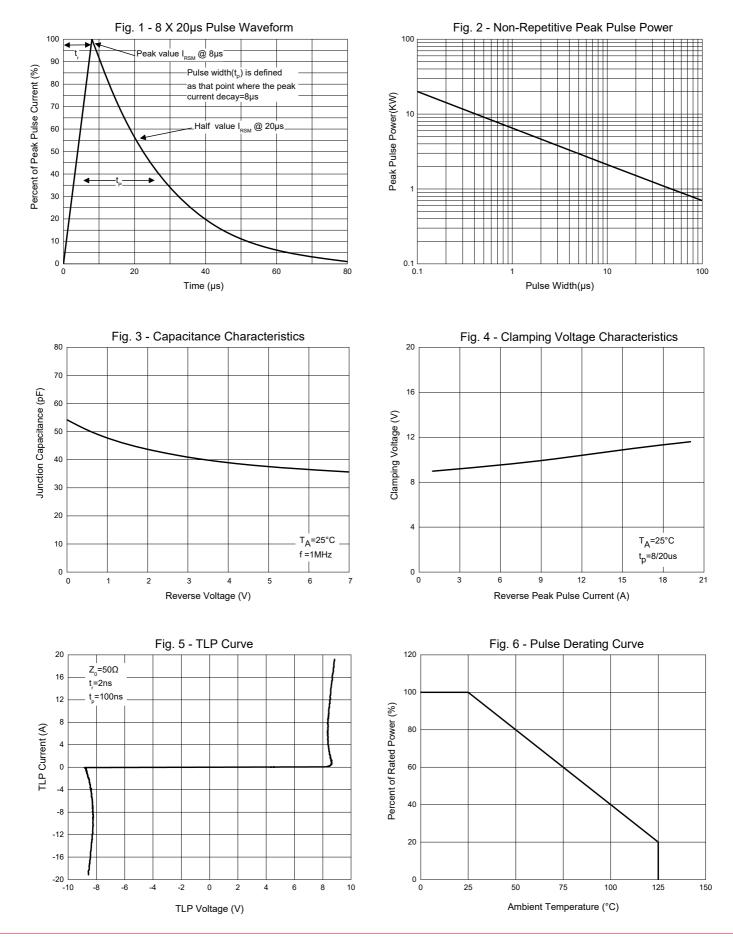
1.Non-repetitive current pulse 8/20µs exponential decay waveform according to IEC61000-4-5.

2.TLP parameter: $Z_0=50\Omega$, 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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