

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

	Air	±30KV		
IEC61000-4-2 (ESD)	Contact	±30KV		
Peak Pulse Current (8/20µs)	I _{PP}	10A		
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	100W		
Operating Junction Temperature Range	TJ	-40°C to +85°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.

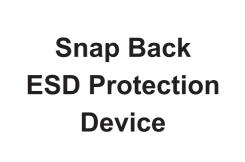
2. Non-repetitive current pulse 8/20 µs exponential decay waveform according to IEC61000-4-5.

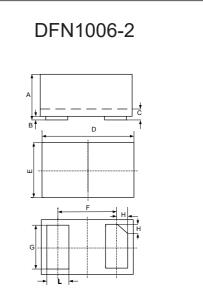
Internal Structure

Marking Code

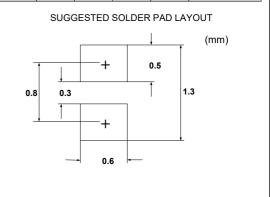






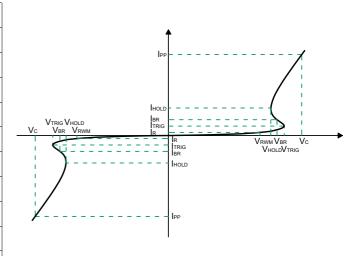


	DIMENSIONS				
DIM IN		HES MM		М	NOTE
Diivi	MIN MAX		MIN	MAX	NOTE
Α	0.018	0.022	0.45	0.55	
В	0.000	0.002	0.00	0.05	
С	0.005	0.007	0.12	0.18	
D	0.037	0.041	0.95	1.05	
E	0.022	0.026	0.55	0.65	
F	0.0	026	0.6	650	TYP.
G	0.018	0.022	0.45	0.55	
Н	0.003	0.007	0.07	0.17	
L	0.008	0.012	0.20	0.30	





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)

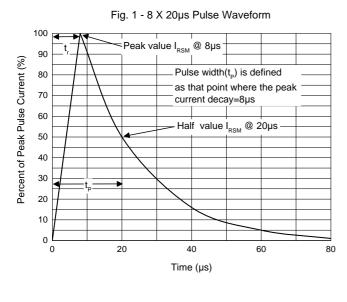
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}			2.5	2.8	V
Punch-Through Voltage	V _{PT}	Ι _τ =2μΑ	2.9			V
Snap-Back Voltage	V _{SB}	I _T =50mA	2.8			V
Reverse Leakage Current	I _R	V _{RWM} =2.5V			0.1	μA
Reverse Leakage Current	I _R	V _{RWM} =2.8V			0.2	μA
Clamping Voltage	Vc	I _{PP} =1A, t _P =8/20μs			5	V
Clamping Voltage	Vc	I _{PP} =10A, t _P =8/20μs			10	V
Junction Capacitance	CJ	V _R =0V, f=1MHz			25	pF

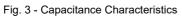
Note :

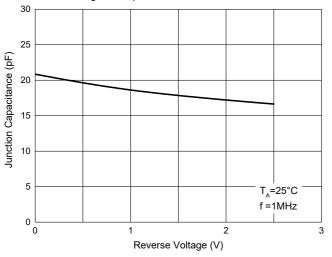
1.Non-repetitive current pulse 8/20µs exponential decay waveform according to IEC61000-4-5.

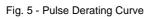


Curve Characteristics









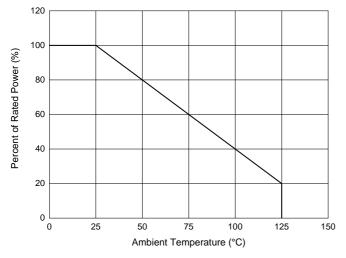


Fig. 2 - Non-Repetitive Peak Pulse Power

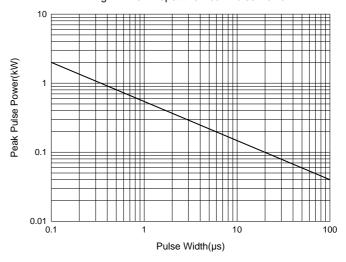
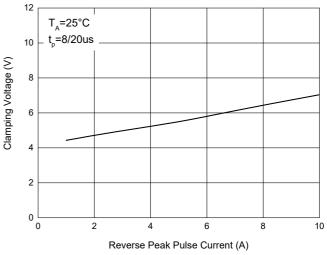


Fig. 4 - Clamping Voltage Characteristics





Ordering Information

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

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