

Features

- Designed For Signal Line Protection Only, Not Intended To Be Used Under Bias, Not For Application With A Power 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	±15KV		
TEC01000-4-2 (E3D)	Contact	±15KV		
Peak Pulse Current (8/20µs)	I _{PP}	5A		
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	35W		
Operating Junction Temperature Range	T_J	-55°C to +125°C		
Storage Temperature Range	T _{STG}	-55°C to +150°C		

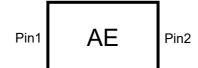
Note:

- 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

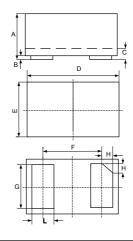
Marking Code





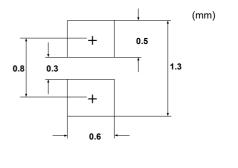
Snap Back ESD Protection Device

DFN1006-2



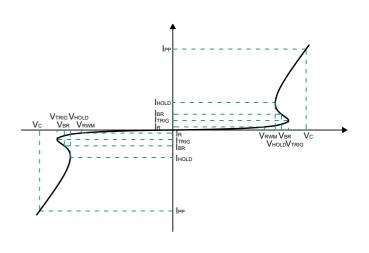
DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL
Α	0.018	0.022	0.45	0.55	
В	0.000	0.002	0.00	0.05	
С	0.005	0.007	0.12	0.18	
D	0.037	0.041	0.95	1.05	
E	0.022	0.026	0.55	0.65	
F	0.0)26	0.6	650	TYP.
G	0.018	0.022	0.45	0.55	
Н	0.003	0.007	0.07	0.17	
L	0.008	0.012	0.20	0.30	

SUGGESTED SOLDER PAD LAYOUT





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		
C _J	Junction Capacitance		



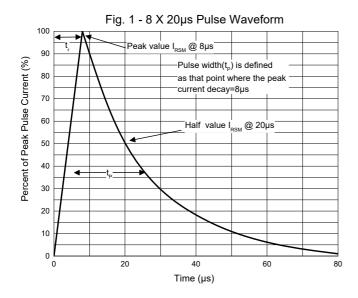
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

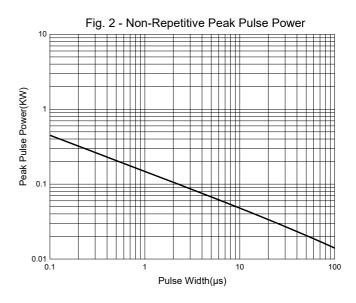
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	6		10	V
Reverse Leakage Current	I _R	V _{RWM} =5V			0.2	μA
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20μs			4	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =5A, t _P =8/20μs			7	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		0.3	0.6	pF
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.38		Ω

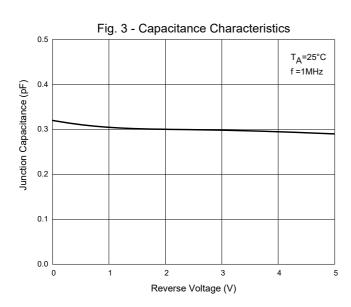
Non-repetitive current pulse 8/20μs exponential decay waveform according to IEC61000-4-5.
TLP parameter: Z₀=50Ω, t_p=100ns, t_r=2ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.

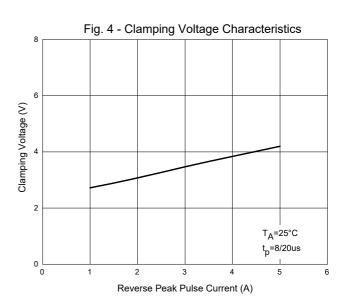


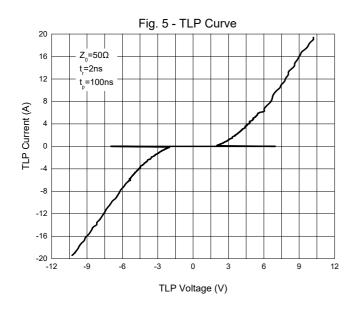
Curve Characteristics

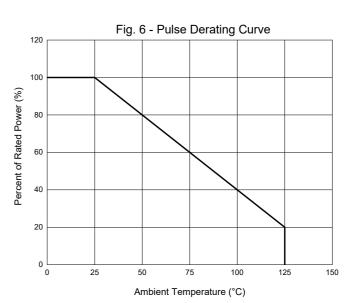














Ordering Information

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

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