

Features

- · Uni-Directional ESD Protection of One Line
- · Ultra Low Leakage
- · 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)

ESD Protection Device

Maximum Ratings

JE004000 4 0 (E0D)	Air	±25KV		
IEC61000-4-2 (ESD)	Contact	±20KV		
Peak Pulse Current (8/20µs)	I _{PP}	5A		
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	250W		
Operating Junction Temperature Range	Тл	-55°C to +125°C		
Storage Temperature Range	T _{STG}	-55°C to +150°C		

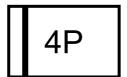
Note:

- 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.

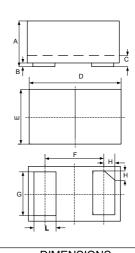
Internal Structure

Marking Code



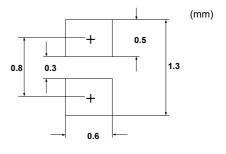


DFN1006-2



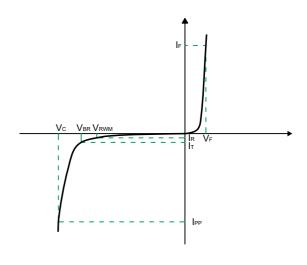
DIMENSIONS						
DIM INCHES		HES	MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.018	0.022	0.45	0.55		
В	0.000	0.002	0.00	0.05		
С	0.005	0.007	0.12	0.18		
D	0.037	0.041	0.95	1.05		
Е	0.022	0.026	0.55	0.65		
F	0.0	26	0.6	50	TYP.	
G	0.018	0.022	0.45	0.55		
Н	0.003	0.007	0.07	0.17		
L	0.008	0.012	0.20	0.30		

SUGGESTED SOLDER PAD LAYOUT





Symbol	Parameter	
V _{RWM}	Peak Reverse Working Voltage	
I _R	Reverse Leakage Current @ VRWM	
V_{BR}	Breakdown Voltage @ IT	
IT	Test Current	
I _{PP}	Maximum Reverse Peak Pulse Current	
V _C	Clamping Voltage @ IPP	
P _{PK}	Peak Pulse Power	
C _J	Junction Capacitance	
I _F	Forward Current	
V _F	Forward Voltage @ IF	



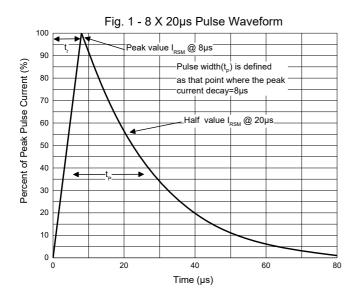
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

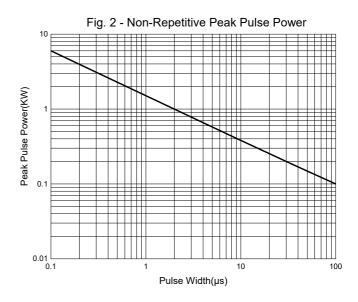
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				24	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	26			V
Reverse Leakage Current	I _R	V _{RWM} =24V			0.3	μA
Forward Voltage	V _F	I _F =10mA			1.1	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20μs		37	40	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =5A, t _P =8/20μs		50	55	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		25	35	pF
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.8		Ω

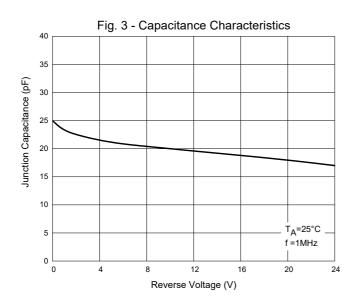
^{1.}Non-repetitive current pulse 8/20 μ s exponential decay waveform according to IEC61000-4-5. 2.TLP parameter: Z_0 =50 Ω , tp=100ns, tr=2ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.

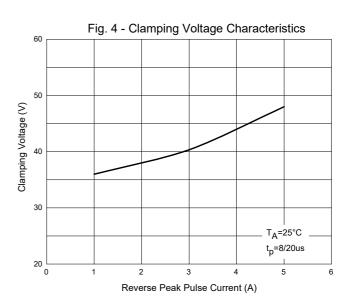


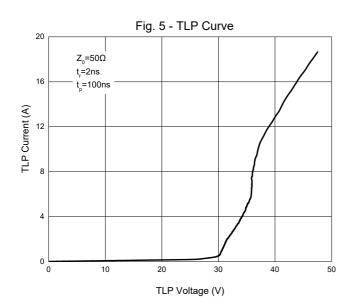
Curve Characteristics

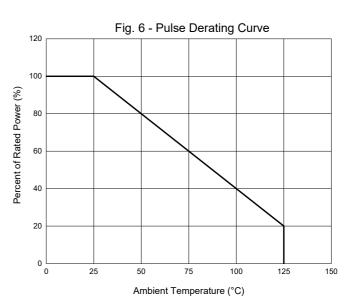














Ordering Information

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

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