

Features

- Uni-Directional ESD Protection of One Line
- · 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)

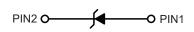
Maximum Ratings

UE004000 4.0 (EQD)	Air	±8KV		
IEC61000-4-2 (ESD)	Contact	±8KV		
Peak Pulse Current (8/20µs)	I _{PP}	2.5A		
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	180W		
Junction Temperature Range	TJ	-55°C to +150°C		
Storage Temperature Range	T _{STG}	-55°C to +150°C		

Note:

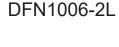
Internal Structure

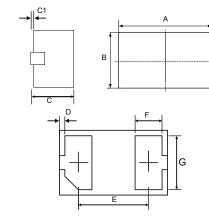
Marking Code





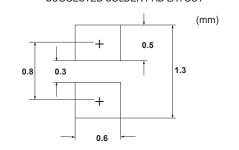
ESD Protection Device





DIMENSIONS					
DIM INCHES		MM		NOTE	
DIIVI	MIN MA		MIN	MAX	NOTE
Α	0.037	0.041	0.95	1.05	
В	0.022	0.026	0.55	0.65	
С	0.016	0.022	0.40	0.50	
C1		0.004		0.05	
D	0.001	0.003	0.02	0.08	
Е	0.026		0.65		TYP.
F	0.008	0.012	0.20	0.30	
G	0.018	0.022	0.45	0.55	

SUGGESTED SOLDER PAD LAYOUT

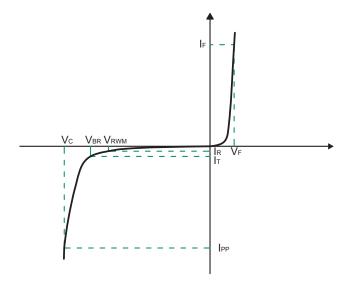


^{1.} Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

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



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)

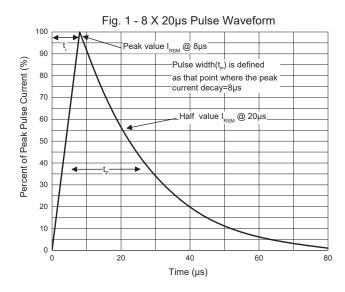
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				27	V
Reverse Breakdown Voltage	V_{BR}	I _{BR} =1mA	31		38	V
Reverse Leakage Current	I _R	V _{RWM} =27V			0.5	μA
Forward Voltage	V _F	I _F =10mA			1.1	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20μs		52	60	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =2.5A, t _P =8/20μs		68	75	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		13		pF

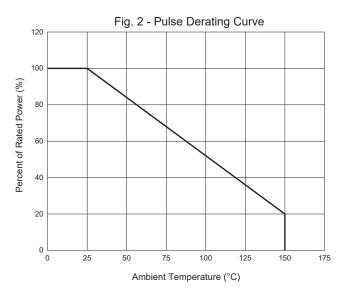
Note:

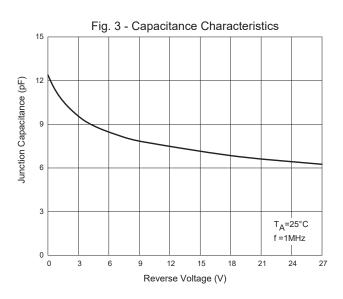
 $1. Non-repetitive \ current \ pulse \ 8/20 \mu s \ exponential \ decay \ waveform \ according \ to \ IEC 61000-4-5.$

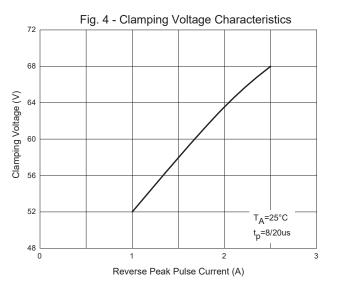


Curve Characteristics











Ordering Information

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

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