

Features

- AEC-Q101 Qualified
- Protects One Data or Power Line
- Low Clamping Voltage
- Ultra Low Leakage: nA Level
- Halogen Free. "Green" Device (Note 1)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

IEC61000-4-2(ESD)	Air	±30KV	
	Contact	±30KV	
Peak Pulse Power (8/20µs)	Ррк	80W	
Peak Pulse Current (8/20µs) ^(Note 2)	IPP	8A	
Operating Junction Temperature Range	Тј	-55°C to +150°C	
Storage Temperature Range	TSTG	-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.

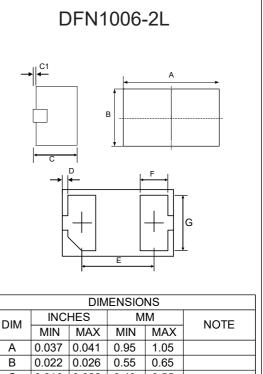
2. Non-repetitive current pulse 8/20 µs exponential decay waveform according to IEC61000-4-5.

Internal Structure

Marking Code

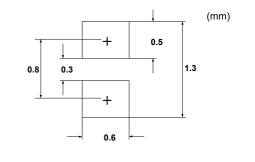
B2





DIMENSIONS					
DIM	INC	HES	MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
А	0.037	0.041	0.95	1.05	
В	0.022	0.026	0.55	0.65	
С	0.016	0.022	0.40	0.55	
C1		0.004		0.10	
D	0.001	0.003	0.02	0.08	
Е	0.0)26	0.	65	TYP.
F	0.008	0.012	0.20	0.30	
G	0.018	0.022	0.45	0.55	

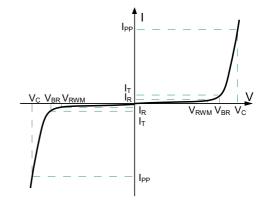
SUGGESTED SOLDER PAD LAYOUT





Symbol	Parameter
I _{PP}	Maximum Reverse Peak Pulse Current
Vc	Clamping Voltage @ I _{PP}
V _{RWM}	Working Peak Reverse Voltage
I _R	Maximum Reverse Leakage Current @ V_{RWM}
V _{BR}	Breakdown Voltage @ I _T
IT	Test Current
С	Capacitance $@V_R=0$ and f =1MHz

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)



Electrical Characteristics per line @ 25°C (Unless Otherwise Specified)

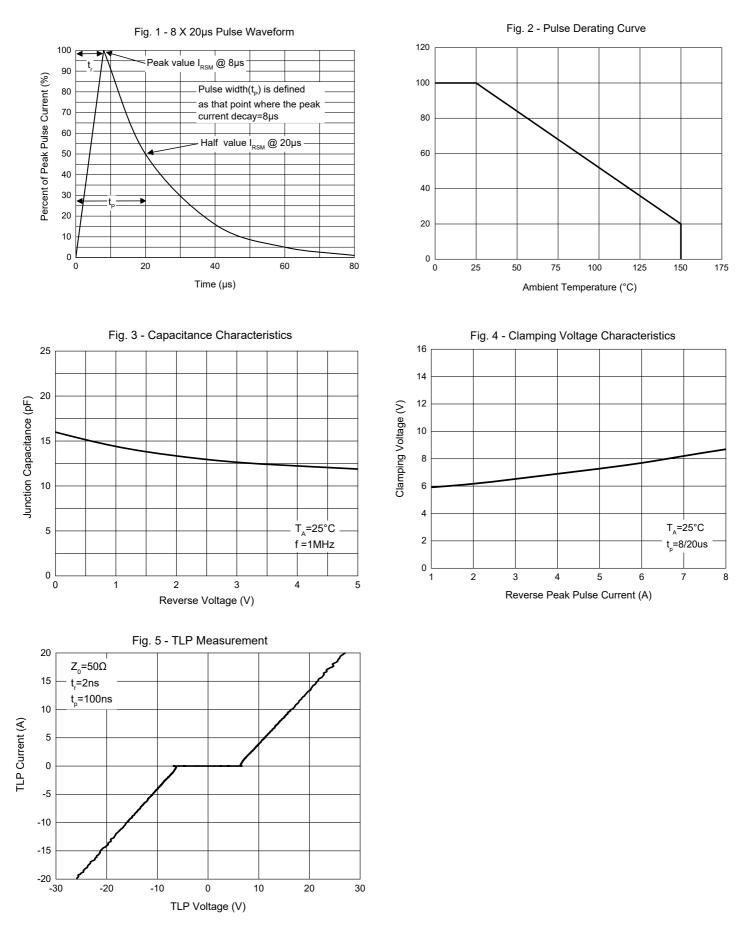
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Stand-Off Voltage	V _{RWM}				5	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	6		8	V
Reverse Leakage Current	I _R	V _{RWM} =5V			100	nA
Clamping Voltage ^{Note1}	Vc	I _{PP} =1A, t _P =8/20μs		6	8	V
Clamping Voltage ^{Note1}	Vc	I _{PP} =8A, t _P =8/20μs		8	10	V
Junction Capacitance	CJ	V _R = 0V, f = 1MHz		15	20	pF
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		1		Ω

Note:

1. Non-repetitive current pulse 8/20 μ s exponential decay waveform according to IEC61000-4-5. 2. TLP parameter: $_0$ =50 Ω , 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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