

Features

- AEC-Q101 Qualified
- Protects One Data or Power 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)

Maximum Ratings

	Air	±30KV		
IEC61000-4-2 (ESD)	Contract	±30KV		
	Contact			
Peak Pulse Current (8/20µs)	I _{PP}	4A		
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	140W		
Operating Junction Temperature Range	TJ	-55°C to +150°C		
Storage Temperature Range	T _{STG}	-55°C to +150°C		

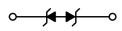
Note :

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.

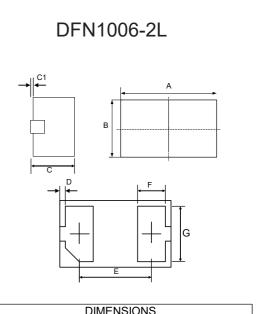
Internal Structure

Marking Code



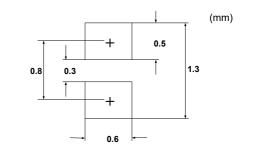






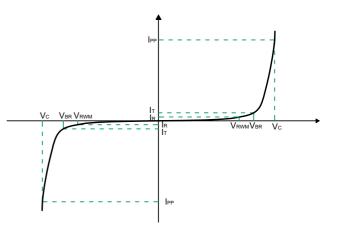
	DIMENSIONS				
DIM	INCHES		MM		NOTE
Divi	MIN	MAX	MIN	MAX	NOTE
Α	0.037	0.041	0.95	1.05	
В	0.022	0.026	0.55	0.65	
С	0.016	0.022	0.40	0.50	
C1		0.004		0.05	
D	0.001	0.003	0.02	0.08	
E	0.026		0.65		TYP.
F	0.008	0.012	0.20	0.30	
G	0.018	0.022	0.45	0.55	

SUGGESTED SOLDER PAD LAYOUT





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	
CJ	Junction Capacitance	



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				15	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	15.5		19.5	V
Reverse Leakage Current	I _R	V _{RWM} =15V			0.5	μA
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20μs		21	24	V
Clamping Voltage ^{Note1}	Vc	I _{PP} =4A, t _P =8/20μs		28	35	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		10		pF
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.8		Ω

Note :

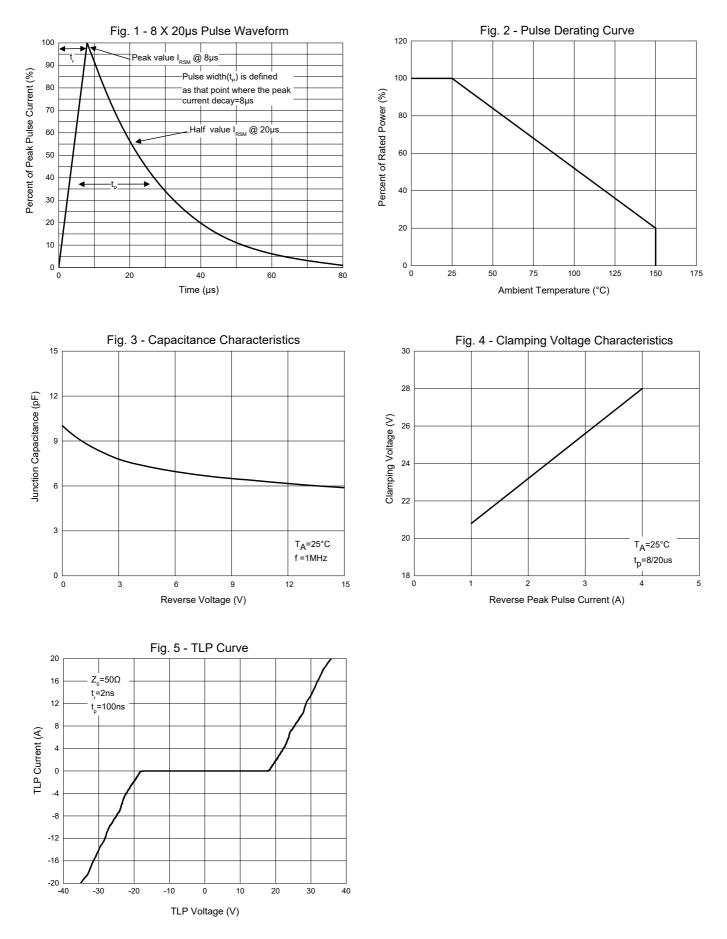
Non-repetitive current pulse 8/20μs exponential decay waveform according to IEC61000-4-5.
TLP parameter: Z0=50Ω, tp=100ns, tr=2ns, averaging window from 60ns to 80ns. RDYN is calculated from 4A to 16A.



Curve Characteristics

•M•C•C•

Micro Commercial Components



Rev.4-1-08212023



Ordering Information

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

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