

Features

- AEC-Q101 Qualified
- · Protects One Data or Power Line
- · Ultra Low Leakage
- Ultra Low Capacitance
- Ultra 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	±16KV		
TEC01000-4-2 (E3D)	Contact	±16KV		
Peak Pulse Current (8/20µs)	I _{PP}	4A		
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	80W		
Operating Junction Temperature Range	T _J	-55°C to +150°C		
Storage Temperature Range	T _{STG}	-55°C to +150°C		

Note:

Internal Structure

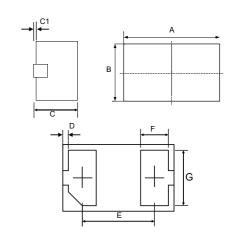
Marking Code





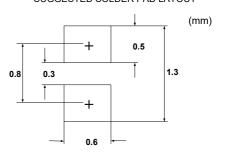
ESD Protection Device

DFN1006-2L



	DIMENSIONS				
DIM INCHES		HES	MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOIE
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

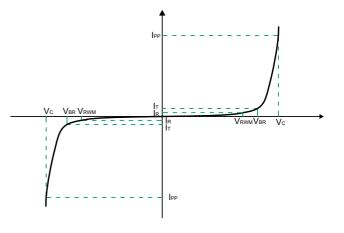


^{1.} Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

^{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 Curren	
V _C	Clamping Voltage @ IPP	
P _{PK}	Peak Pulse Power	
С	Junction Capacitance	



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

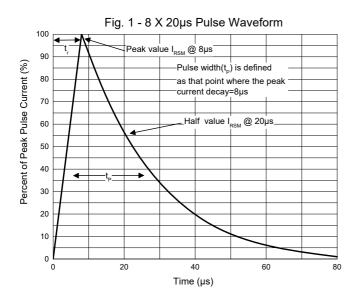
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				3.3	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	4.8		7	V
Reverse Leakage Current	I _R	V _{RWM} =3.3V			0.1	μA
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20μs			12	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =4A, t _P =8/20μs			20	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		0.32	0.65	pF
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		1.25		Ω

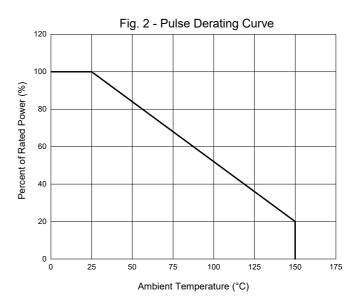
Note:

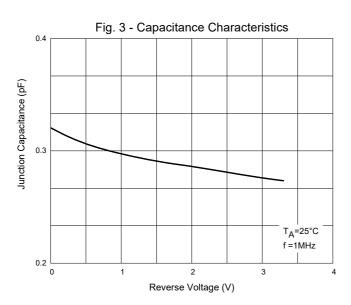
^{1.}Non-repetitive current pulse $8/20\mu s$ exponential decay waveform according to IEC61000-4-5. 2.TLP parameter: $Z0=50\Omega$, tp=100ns, tr=2ns, averaging window from 60ns to 80ns. RDYN is calculated from 4A to 16A.

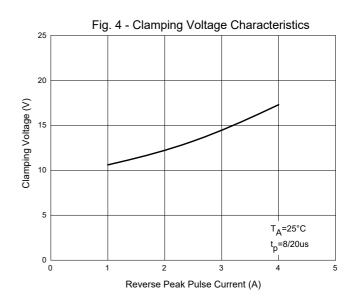


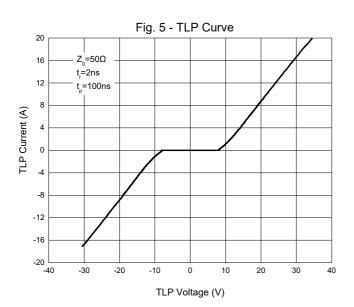
Curve Characteristics













Ordering Information

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

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