

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)

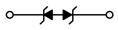
Maximum Ratings

IEC61000-4-2 (ESD)	Air	±30KV		
TEC01000-4-2 (E3D)	Contact	±30KV		
Peak Pulse Current (8/20µs)	I _{PP}	6A		
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	90W		
Operating Junction Temperature Range	TJ	-55°C to +150°C		
Storage Temperature Range	T _{STG}	-55°C to +150°C		

Note:

Internal Structure

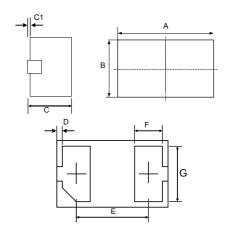
Marking Code



7B

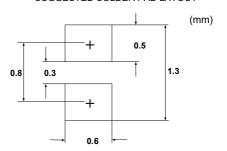
ESD Protection Device

DFN1006-2L



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	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	80.0		
Е	0.026		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

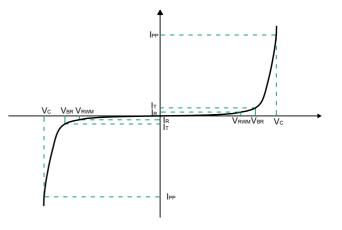


^{1.} Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

^{2.} Non-repetitive current pulse $8/20~\mu s$ 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	



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

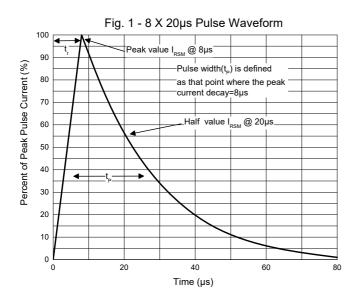
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				7	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	7.5		10.5	V
Reverse Leakage Current	I _R	V _{RWM} =7V			0.5	μA
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20μs		10	13	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =6A, t _P =8/20μs		13	15	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		23		pF
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.5		Ω

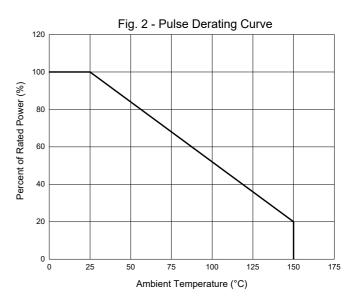
Note:

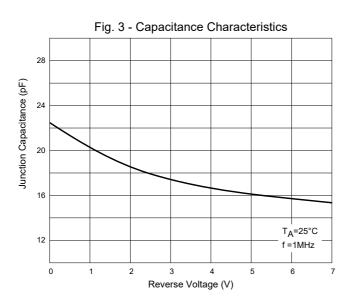
^{1.}Non-repetitive current pulse $8/20\mu s$ exponential decay waveform according to IEC61000-4-5. 2.TLP parameter: $Z0=50\Omega$, tp=100ns, tr=2ns, averaging window from 60ns to 80ns. RDYN is calculated from 4A to 16A.

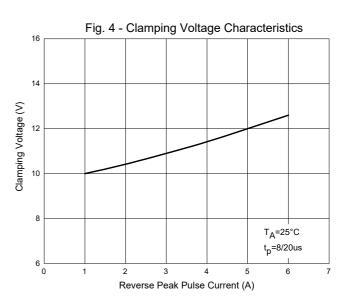


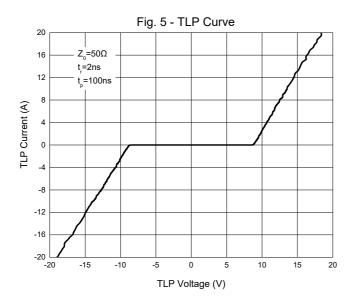
Curve Characteristics













Ordering Information

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

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