

Features

- AEC-Q101 Qualified
- · Bi-Directional ESD Protection of Single 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

IEC61000-4-2 (ESD)	Air	±30KV		
TEC01000-4-2 (ESD)	Contact	±30KV		
Peak Pulse Current (8/20µs)	lpp	14A		
Peak Pulse Power (8/20µs) ^(Note2)	РРК	140W		
Junction Temperature Range	TJ	-55°C to +150°C		
Storage Temperature Range	TSTG	-55°C to +150°C		

Note:

Internal Structure

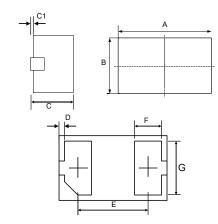
Marking Code





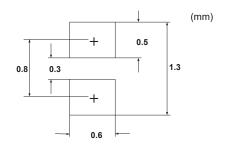
Snap Back ESD Protection Device

DFN1006-2L



DIMENSIONS						
DIM INC		HES	MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL	
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	0.0	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



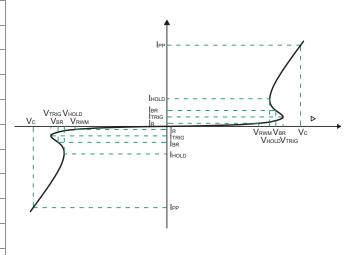
^{1.} Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

^{2.} Non-repetitive current pulse 8/20 μs exponential decay waveform according to IEC610 00-4-5.



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

Symbol	Parameter	
V _{RWM}	Peak Reverse Working Voltage	
I _R	Reverse Leakage Current @ VRWM	
V _{BR}	Breakdown Voltage @ IT	
I _{PP}	Maximum Reverse Peak Pulse Current	
V _C	Clamping Voltage @ IPP	
V _{TRIG}	Reverse Trigger Voltage	
I _{TRIG}	Reverse Trigger Current	
V _{HOLD}	Reverse Holding Voltage	
I _{HOLD}	Reverse Holding Current	
Сл	Junction Capacitance	
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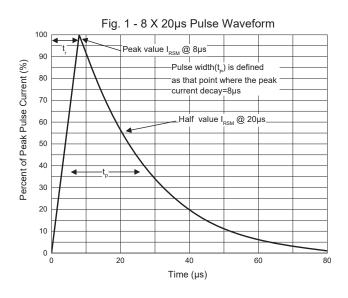
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

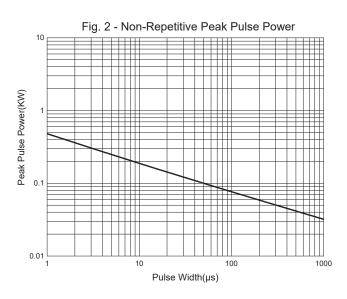
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				3.3	V
Reverse Breakdown Voltage	V_{BR}	I _{BR} =1mA	3.7		5	V
Reverse Leakage Current	I _R	V _{RWM} =3.3V			1	μA
Clamping Voltage ^{Note1}	V _C	I _{PP} =14A, t _P =8/20μs		8.8	10	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		29	50	pF
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.38		Ω

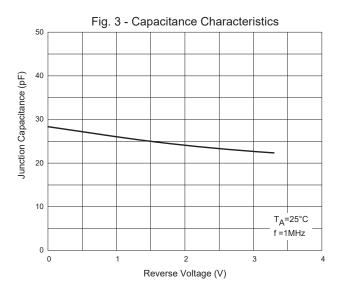
^{1.}Non-repetitive current pulse 8/20μs exponential decay waveform according to IEC61000-4-5.
2.TLP parameter: Z₀=50Ω, tp=100ns, tr=2ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.

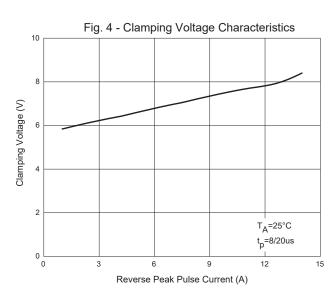


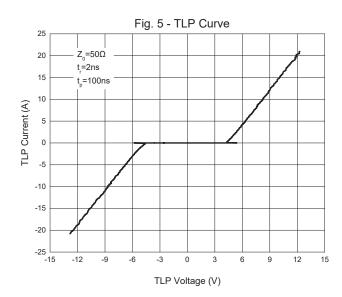
Curve Characteristics

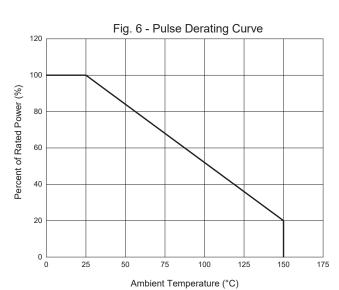














Ordering Information

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

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