

Features

- AEC-Q101 Qualified
- Low Operating Voltage
- Ultra Low Clamping Voltage
- 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)

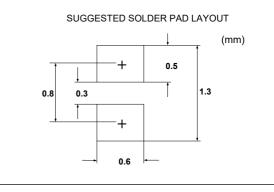
ESD Protection Device

Maximum Ratings

IEC61000-4-2(ESD)	Air	±30KV	
	Contact	±30KV	
Peak Pulse Power (8/20µs)	PPK	60W	
Peak Pulse Current (8/20µs)(Note 2)	lpp	8A	
Operating Junction Temperature Range	TJ	-55 to +150°C	
Storage Temperature Range	TSTG	-55 to +150°C	

DFN1006-2L

DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	INOTE
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	0.026		0.65		TYP.
F	0.008	0.012	0.20	0.30	
G	0.018	0.022	0.45	0.55	



Internal Structure

Marking Code



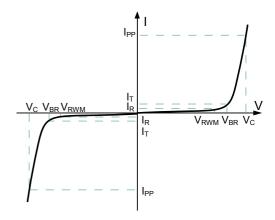
^{1.} Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

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



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

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		
I _T	Test Current		
С	Capacitance @V _R =0 and f =1MHz		



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

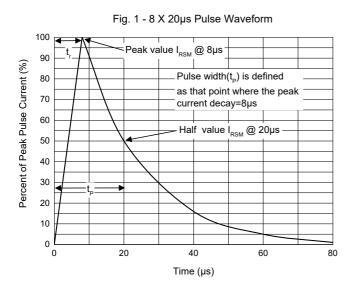
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				3.3	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	4.5	5.2	6.5	V
Reverse Leakage Current	I _R	V _{RWM} =3.3V			100	nA
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20μs			7	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =8A, t _P =8/20µs			9	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		15	20	pF
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		1.2		Ω

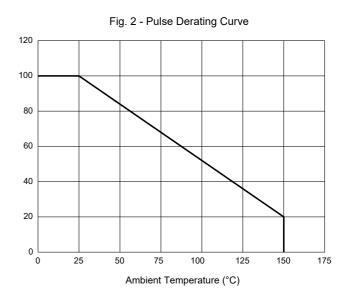
Note:

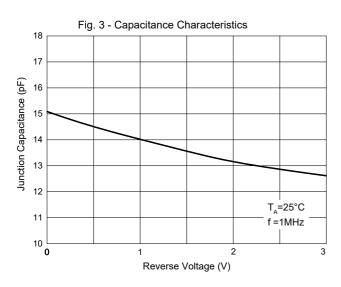
- 1. Non-repetitive current pulse 8/20µs exponential decay waveform according to IEC61000-4-5.
- 2. TLP parameter: $_0$ =50 Ω , t_p =100ns, t_r =2ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.

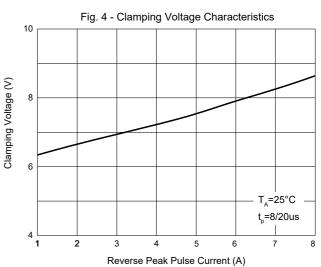


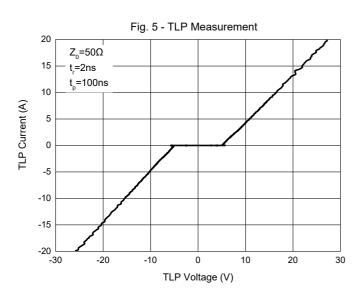
Curve Characteristics













Ordering Information

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

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