

Features

- AEC-Q101 Qualified
- · Ultra Low Leakage
- · Ultra Low Capacitance
- · Low Clamping Voltage
- · Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

IEC61000-4-2(ESD)	Air	±25KV	
12001000 12(200)	Contact	±20KV	
Peak Pulse Power (8/20µs)	PPK	90W	
Peak Pulse Current (8/20µs)(Note 2)	IPP	3.5A	
Operating Junction Temperature Range	ТJ	-55°C to +125°C	
Storage Temperature Range	TSTG	-55°C to +150°C	

Note:

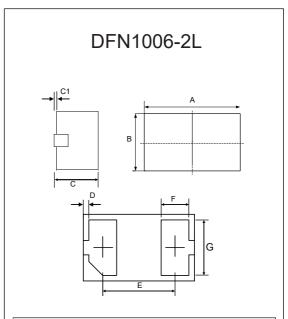
Internal Structure

Marking Code

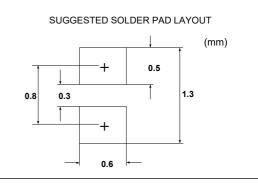


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ESD Protection Device



DIMENSIONS					
DIM	INC	HES	M	М	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	0.55	
C1		0.004		0.10	
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	

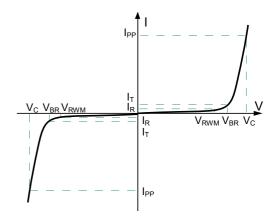


^{1.} Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

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



Symbol	Parameter		
I _{PP}	Maximum Reverse Peak Pulse Current		
Vc	Clamping Voltage @ IPP		
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 @ 25°C (Unless Otherwise Specified)

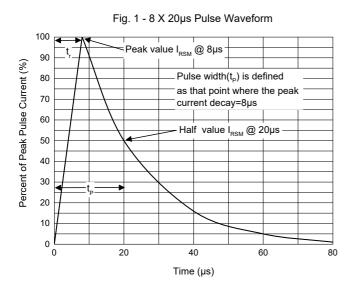
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				8	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	9.5		11.5	V
Reverse Leakage Current	I _R	V _{RWM} =8V			0.2	μA
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20μs			18	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =3.5A, t _P =8/20μs			26	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		0.3	0.5	pF
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		1.65		Ω

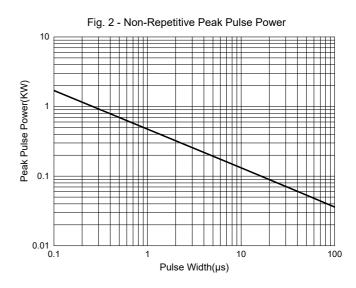
Note:

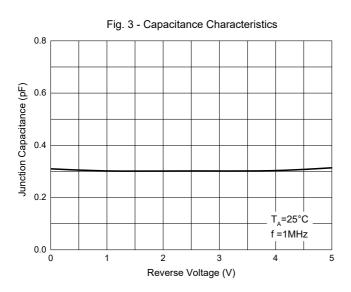
- 1. Non-repetitive current pulse $8/20\mu s$ exponential decay waveform according to IEC61000-4-5.
- 2. TLP parameter: Z_0 =50 Ω , t_p =100ns, t_r =2ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.

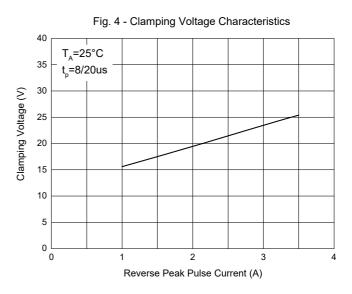


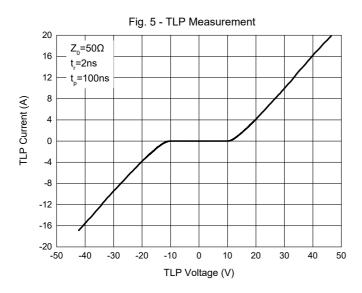
Curve Characteristics

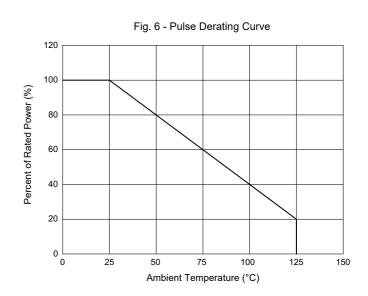














Ordering Information

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

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