

Features

- · ESD Protection Of Up To Four Lines
- · 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)

ESD Protection Device

Maximum Ratings

IEC61000-4-2 (ESD)	Air	±30KV
IEC01000-4-2 (E3D)	Contact	±30KV
Peak Pulse Current (8/20µs)	I _{PP}	8A
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	96W
Operating Junction Temperature Range	TJ	-55°C to +125°C
Storage Temperature Range	T _{STG}	-55°C to +150°C

Note:

- 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.

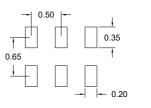
DFN1510-6A

DIMENSIONS					
	INCH		MM		NOTE
	MIN	MAX	MIN	MAX	NOIL
Α	0.020	0.024	0.5	0.6	
A1	0.000	0.002	0.01	0.05	
b	0.006	0.010	0.15	0.25	
С	0.006		0.15		TYP
D	0.055	0.063	1.4	1.6	
е	0.020		0.5		TYP
Е	0.035	0.043	0.9	1.1	
L	0.012	0.016	0.3	0.4	
L1	0.014	0.018	0.35	0.45	
h	0.002	0.006	0.05	0.15	

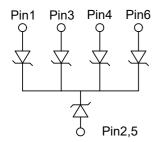
DIMENSIONS

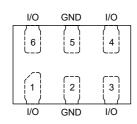
SUGGESTED SOLDER PAD LAYOUT

(mm)



Internal Structure



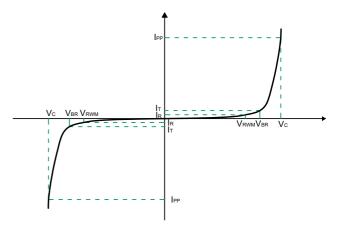


Marking Code

33PE



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)

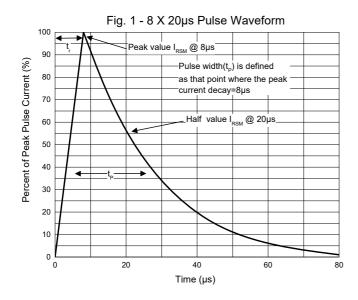
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				3.3	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	3.5			V
Reverse Leakage Current	I _R	V _{RWM} =3.3V			0.2	μA
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20μs			8	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =8A, t _P =8/20μs			12	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		12		pF
Dynamic Resistance Note2	R_{DYN}	TLP, t _P =100ns		0.4		Ω

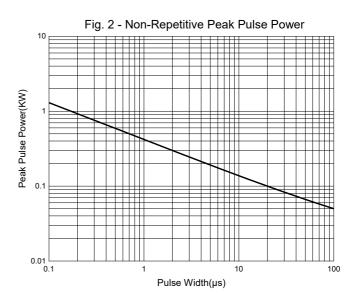
Note:

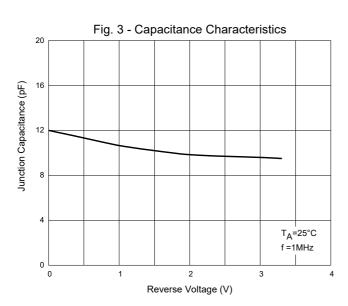
^{1.}Non-repetitive current pulse 8/20 μ s exponential decay waveform according to IEC61000-4-5. 2.TLP parameter: Z0=50 Ω , tp=100ns, tr=2ns, averaging window from 60ns to 80ns. RDYN is calculated from 4A to 16A. 3.All measured from Pin1,3,4 or 6 toPin2 or 5.

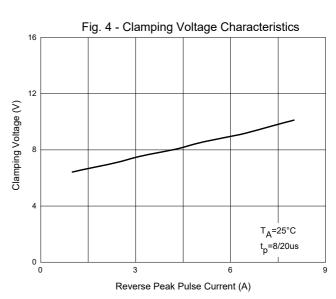


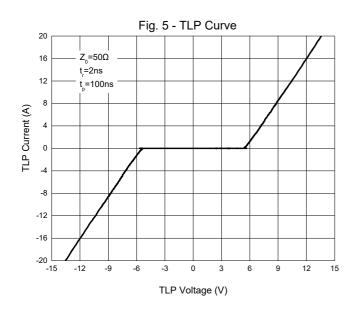
Curve Characteristics

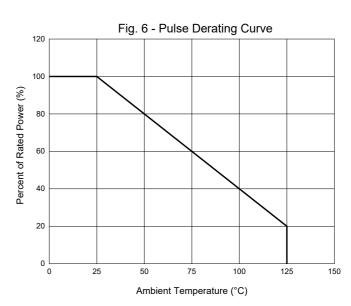














Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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