

Features

- · ESD Protection of 4 Line
- · Low Leakage Current
- · Ultra Low Capacitance
- 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)

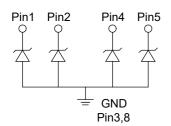
Maximum Ratings

IEC61000-4-2 (ESD)	Air	±15KV		
IEC01000-4-2 (E3D)	Contact	±15KV		
Peak Pulse Current (8/20µs)	I _{PP}	7A		
Peak Pulse Power (8/20µs) ^(Note2)	P _{PK}	56W		
Operating Junction Temperature Range	Т	-55°C to +125°C		
Storage Temperature Range	T _{STG}	-55°C to +150°C		

Note:

Internal Structure

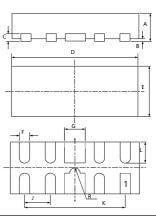
Marking Code





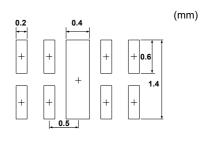
Snap Back ESD Protection Device

DFN-10



DIMENSIONS					
DIM	DIM INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOIL
Α	0.016	0.020	0.40	0.50	
В	0.000	0.002	0.00	0.05	
С	0.004	0.008	0.10	0.20	
D	0.098	0.102	2.45	2.55	
Е	0.038	0.042	0.95	1.05	
F	0.006	0.010	0.15	0.25	
G	0.014	0.018	0.35	0.45	
J	0.0)20	0.5	500	TYP.
K	0.0	080	2.0	000	TYP.
L	0.012	0.018	0.30	0.46	
R	0.0	005	0.1	25	TYP.

SUGGESTED SOLDER PAD LAYOUT

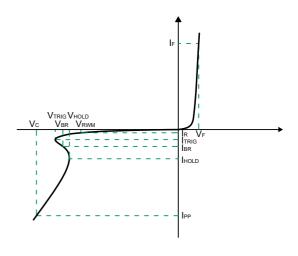


^{1.} Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

^{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	
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	
CJ	Junction Capacitance	



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

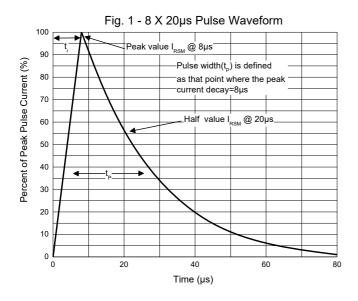
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	6		10	V
Reverse Leakage Current	I _R	V _{RWM} =5V			0.2	μA
Reverse Holding Voltage	V _{HOLD}	I _{HOLD} = 50mA,		2		V
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20μs		2.5	5	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =7A, t _P =8/20μs		4.5	8	V
Clamping Voltage ^{Note2}	V _C	IPP = 16A, tp = 100ns		5.5		V
Junction Capacitance	CJ	V _R =1.5V, f=1MHz		0.3		pF
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.24		Ω

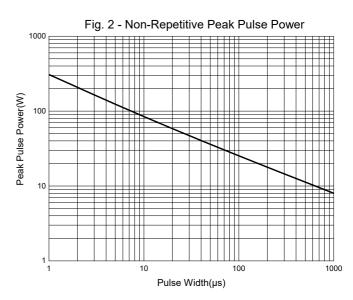
Note:

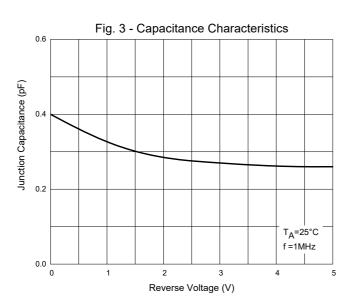
^{1.}Non-repetitive current pulse 8/20μs exponential decay waveform according to IEC61000-4-5.
2.TLP parameter: Z0=50Ω, tp=100ns, tr=2ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A.
3.All measured from any I/O pins to GND.

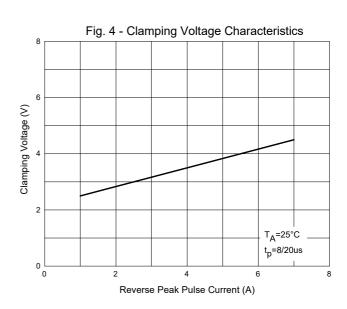


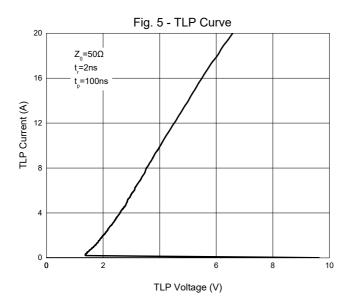
Curve Characteristics

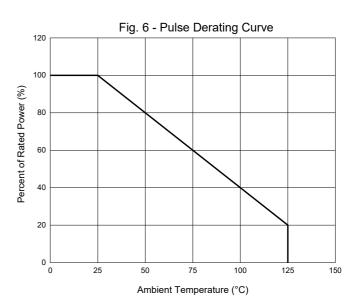














Ordering Information

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

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