

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)

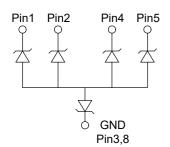
Maximum Ratings

IEC61000-4-2 (ESD)	Air	±15KV		
1200 1000-4-2 (200)	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

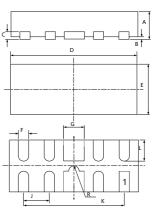
Marking Code





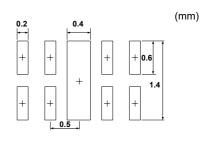
Snap Back ESD Protection Device

DFN-10



	DIMENSIONS					
DIM INC		HES	MM		NOTE	
Diivi	MIN	MAX	MIN	MAX	NOTE	
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	020	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	125	TYP.	

SUGGESTED SOLDER PAD LAYOUT

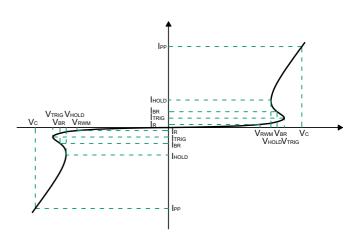


^{1.} Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

^{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)

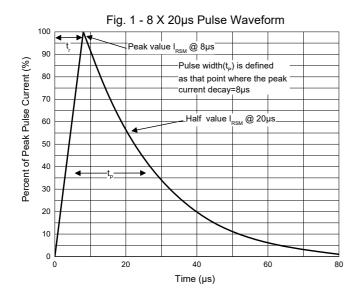
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				5	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	6		10	V
Reverse Leakage Current	I _R	V _{RWM} =5V			0.2	μΑ
Reverse Holding Voltage	V _{HOLD}	I _{HOLD} = 50mA,	2			V
Clamping Voltage ^{Note1}	V _C	I _{PP} =1A, t _P =8/20μs		3	5	V
Clamping Voltage ^{Note1}	V _C	I _{PP} =7A, t _P =8/20μs		6.5	8	V
Clamping Voltage ^{Note2}	V _C	IPP = 16A, tp = 100ns		11		V
Junction Capacitance	CJ	V _R =0V, f=1MHz		0.22		pF
Dynamic Resistance Note2	R _{DYN}	TLP, t _P =100ns		0.43		Ω

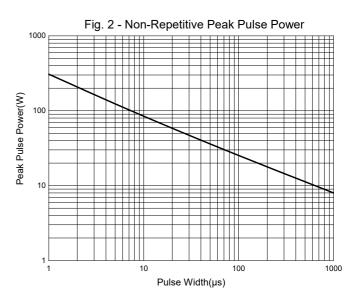
Note:

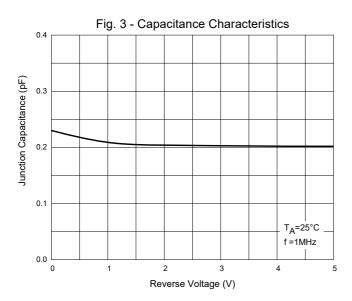
^{1.}Non-repetitive current pulse 8/20 μ s exponential decay waveform according to IEC61000-4-5. 2.TLP parameter: Z_0 =50 Ω , tp=100ns, tr=2ns, averaging window from 60ns to 80ns. R_{DYN} is calculated from 4A to 16A. 3.All measured from any I/O pins to GND.

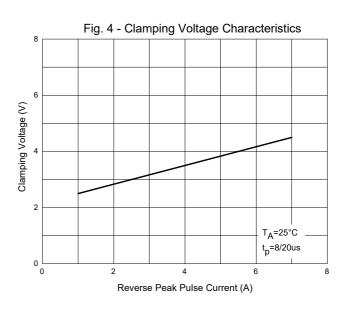


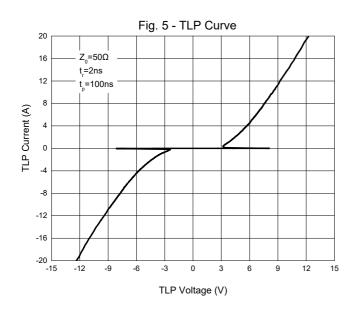
Curve Characteristics

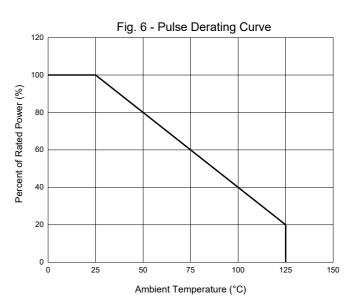














Ordering Information

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

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