

Features

- Ultra Small Package: 0.8x0.8x0.3mm
- Low Capacitance
- · Protects Four Data or Power Lines
- · Ultra Low Leakage
- · 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

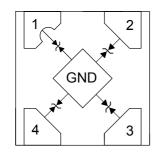
- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
ESD0514PD	PD

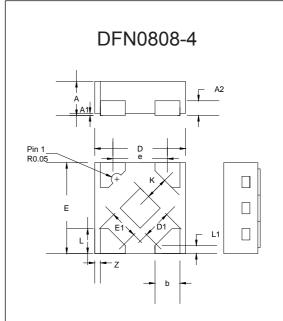
IEC61000-4-2(ESD)	Air Contact	±25KV ±22KV
Peak Pulse Current(8/20μs)	I _{PP}	3.5A
Peak Pulse Power (8/20µs)	P _{PK}	40W

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

Circuit and Pin Schematic



ESD Protection Device



	DIMENSIONS				
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOIL
Α	0.010	0.014	0.25	0.35	
A1	0.000	0.002	0.00	0.04	
A2	0.0	05	0.13		TYP.
b	0.007	0.011	0.17	0.27	
D	0.030	0.033	0.75	0.85	
D1	0.006	0.014	0.15	0.35	
Е	0.030	0.033	0.75	0.85	
E1	0.006	0.014	0.15	0.35	
е	0.019		0.48		TYP.
K	0.008		0.20		
L	0.007	0.011	0.17	0.27	
L1	0.001	0.005	0.02	0.12	
Z	0.002		0.05		TYP.

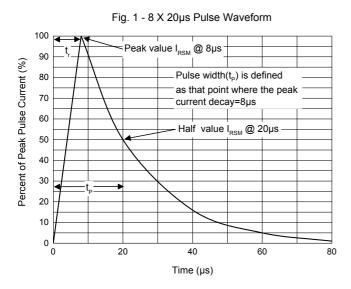


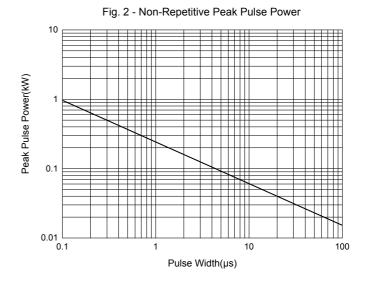
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

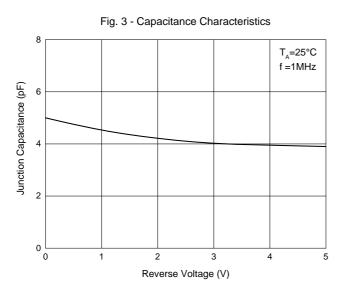
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}	Any I/O Pin to GND			5	V
Reverse Breakdown Voltage	V_{BR}	I _T = 1mA, Any I/O Pin to GND	6		8	V
Reverse Leakage Current	I _R	V _{RWM} = 5V, Any I/O Pin to GND			0.2	μΑ
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20μs, Any I/O Pin to GND			8	V
Clamping Voltage	V _C	I _{PP} =3.5A, t _P =8/20µs, Any I/O Pin to GND			12	V
Junction Capacitance	С	V _R = 0V, f = 1MHz		5		pF

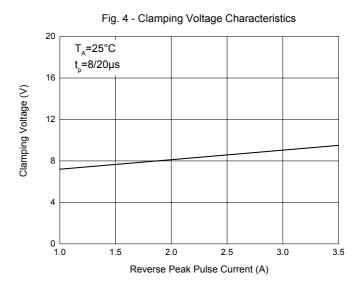


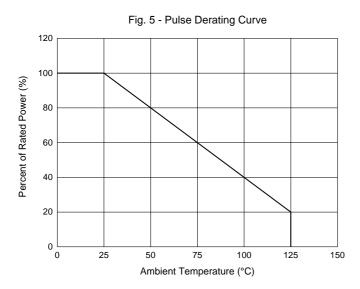
Curve Characteristics













Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 5Kpcs/Reel

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