

PS4313-DFA

Low Capacitance ESD Protection

Voltage

3.3V

Features

- IEC61000-4-2(ESD) : $\pm 15\text{kV}$ Air, $\pm 15\text{kV}$ Contact
- IEC61000-4-4(EFT) : 40A (5/50ns)
- IEC61000-4-5(Lightning) : 6A (8/20uS)
- Low leakage current, maximum of 1uA at rated voltage
- Ultra Low clamping voltage
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

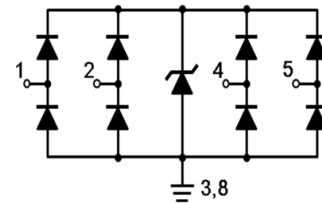
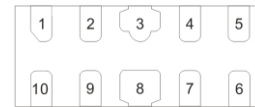
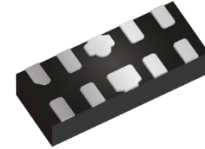
Mechanical Data

- Case : DFN2510A-10L Package
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.003 grams

Applications

- USB 3.0, 3.1 and 3.2
- Notebook/Desktop Computers
- SATA/eSATA interface

DFN2510A-10L



pin 1

Top view

Part Marking	Parameter
433AYWL	433A = Marking Code YWL = Y - Last digit of calendar year W - Weekly L - The latest two digits of wafer lot#

Maximum Ratings

PARAMETER	SYMBOL	VALUE	UNITS
ESD IEC61000-4-2(Air)	V_{ESD}	± 15	kV
ESD IEC61000-4-2(Contact)		± 15	
Operating Junction Temperature Range	T_J	-55 to +125	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^{\circ}\text{C}$

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Electrical Characteristics

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage ^(Note 1)	V_{RWM}	I/O Pin to GND	-	-	3.3	V
Reverse Breakdown Voltage	V_{BR}	$I_{BR} = 1\text{mA}$, I/O Pin to GND	5	-	10	V
Forward Voltage	V_F	$I_F = 15\text{mA}$, I/O Pin to GND	-	1	-	V
Reverse Leakage Current	I_R	$V_R = 3.3\text{V}$, I/O Pin to GND	-	0.5	1	μA
Clamping Voltage	V_{CL}	$I_{PP} = 5\text{A}$, $t_P = 8/20\mu\text{s}$, I/O pins to GND	-	3.2	4.2	V
Clamping Voltage TLP ^(Note 2)	V_{CL}	$I_{PP} = 16\text{A}$, $t_P = 100\text{ns}$, I/O Pin to GND	-	4.1	-	V
Off State Junction Capacitance ^(Note 3)	C_J	1.5Vdc Bias, $f = 1\text{MHz}$, I/O Pins to GND	-	0.29	0.34	pF

NOTES :

1. A transient suppressor is selected according to the working peak reverse voltage(V_{RWM}), which should be equal to or greater than the DC or continuous peak operation voltage level.
2. Testing using Transmission Line Pulse (TLP) conditions: $Z_0 = 50\Omega$, $t_P = 100\text{ns}$.
3. This parameter is guaranteed by design.

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TYPICAL CHARACTERISTIC CURVES

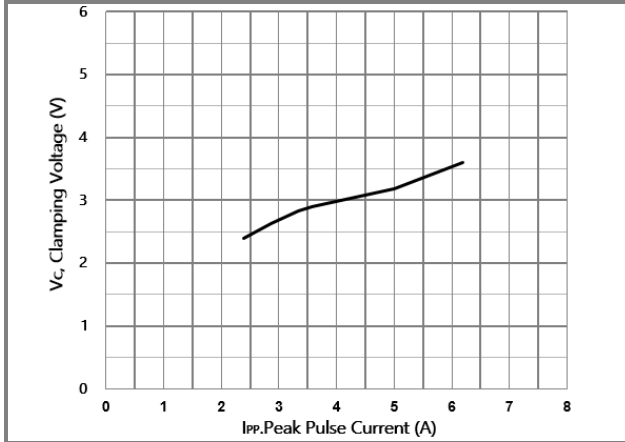


Fig.1 Typical Peak Clamping Voltage

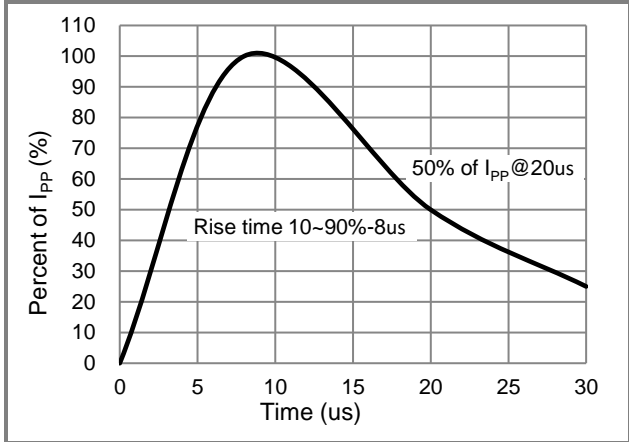


Fig.2 Pulse Waveform

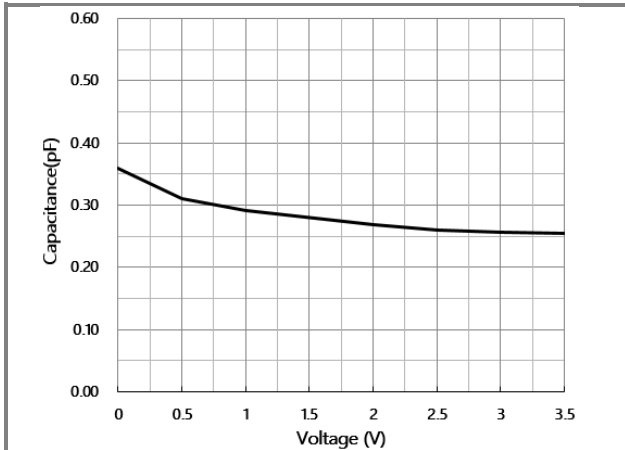


Fig.3 Typical Junction Capacitance

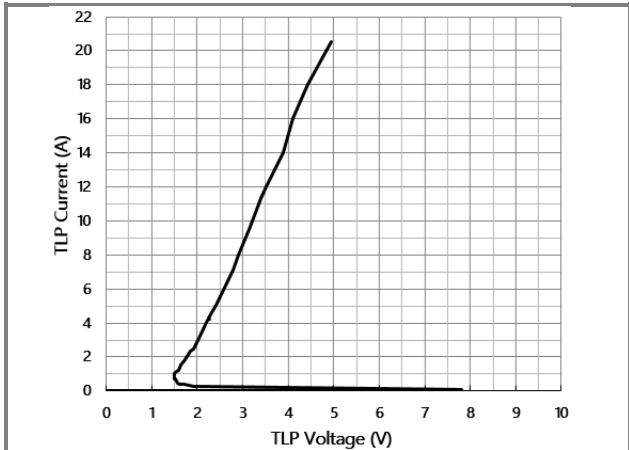


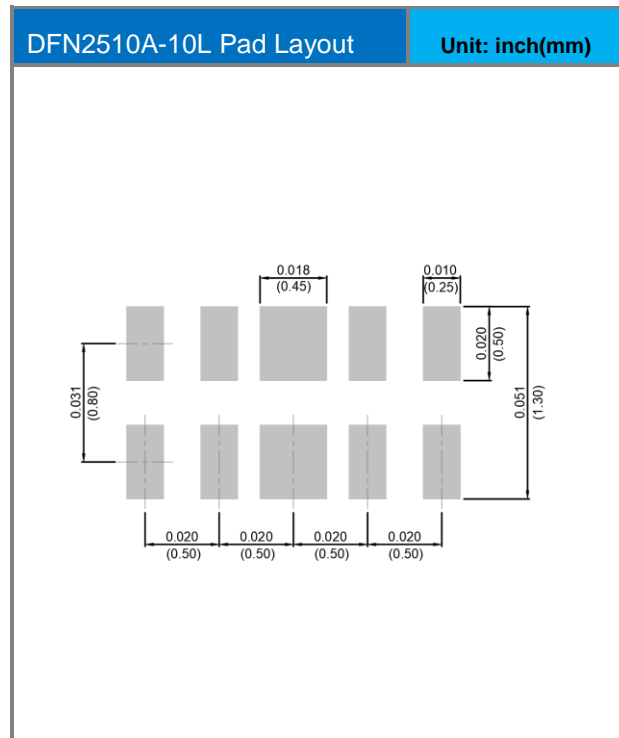
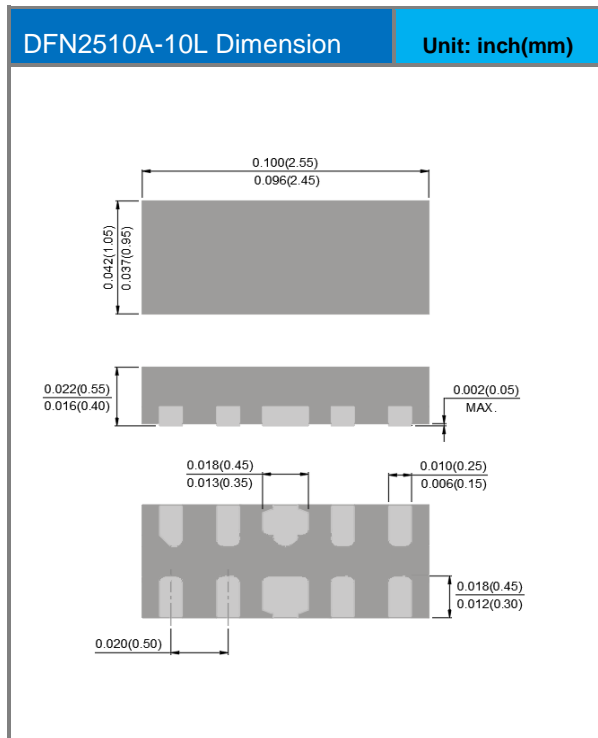
Fig.4 TLP Measurement

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Product and Packing Information

Part No.	Package Type	Packing Type	Marking
PS4313-DFA	DFN2510A-10L	3K pcs / 7" reel	433A

Packaging Information & Mounting Pad Layout



PS4313-DFA

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