

### Low Capacitance ESD Protection

5V

Voltage

#### Features

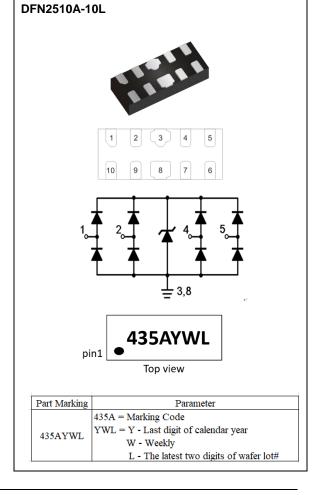
- IEC61000-4-2(ESD) : ±15kV Air, ±15kV Contact
- IEC61000-4-4(EFT) : 40A (5/50ns)
- IEC61000-4-5(Lightning) : 6A (8/20uS)
- Low leakage current, maximum of 1uA at rated voltage
- Ultra low clamping voltage
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

#### **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



#### **Maximum Ratings and Thermal Characteristics** (T<sub>A</sub> = 25<sup>o</sup>C unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS	
ESD IEC61000-4-2(Air)		±15	kV	
ESD IEC61000-4-2(Contact)	Vesd	±15		
Operating Junction Temperature Range	TJ	-55 to +125	°C	
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	٥C	



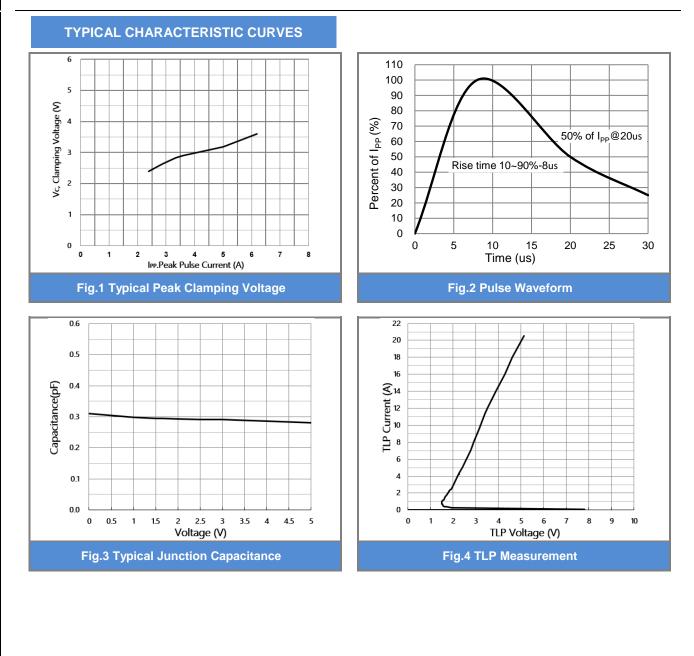
#### **Electrical Characteristics** (T<sub>A</sub> = 25<sup>o</sup>C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage <sup>(Note 1)</sup>	Vrwm	I/O Pin to GND	-	-	5	V
Reverse Breakdown Voltage	VBR	I <sub>BR</sub> = 1mA, I/O Pin to GND	5.5	-	10.5	V
Forward Voltage	VF	$I_F = 15 \text{mA}$ , I/O Pin to GND	-	1	-	V
Reverse Leakage Current	IR	$V_R = 5V$ , I/O Pin to GND	-	0.5	1	uA
Clamping Voltage	V <sub>CL</sub>	I <sub>PP</sub> = 5A, t <sub>P</sub> =8/20μs, I/O pins to GND	-	3.2	4.2	V
Clamping Voltage TLP <sup>(Note 2)</sup>	VcL	I <sub>PP</sub> = 16A, t <sub>P</sub> = 100ns, I/O Pin to GND		4.3	-	V
Off State Junction Capacitance (Note 3)	CJ	2.5Vdc Bias, f = 1MHz, 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<sub>RWM</sub>), which should be equal to or greater than the DC or continuous peak operation voltage level.
- 2. Testing using Transmission Line Pulse (TLP) conditions:  $Z0 = 50\Omega$ ,  $t_P = 100$  ns.
- 3. This parameter is guaranteed by design.



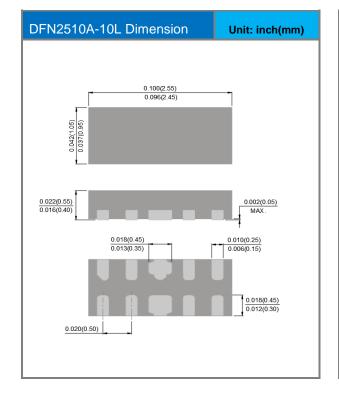


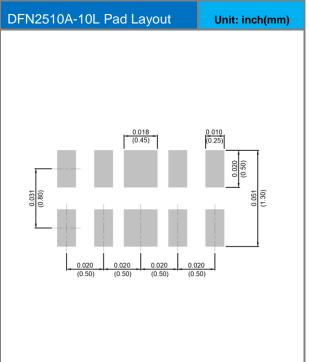


#### **Product and Packing Information**

Part No.	Package Type	Packing Type	Marking
PS4315-DFA	DFN2510A-10L	3K pcs / 7" reel	435A

## Packaging Information & Mounting Pad Layout







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