

Low Capacitance ESD Protection

Voltage

.

3.3V

Features

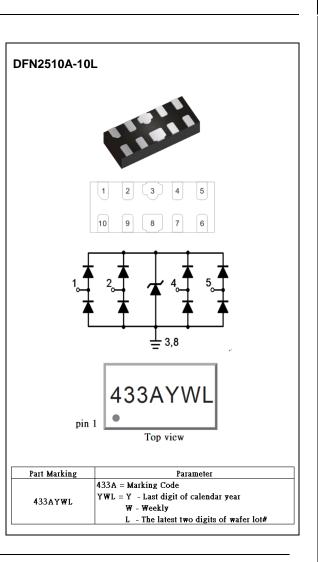
- IEC61000-4-2(ESD) : ±15kV Air, ±15kV Contact
- IEC61000-4-4(EFT) : 40A (5/50ns)
- IEC61000-4-5(Lightning) : 6A (8/20uS)
- Low leakage current, maximum of 1uA at rated voltage
- Ultra Low clamping voltage
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

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

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 _{STG}	-55 to +150	°C	



Electrical Characteristics

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Stand-Off Voltage ^(Note 1)	Vrwm	I/O Pin to GND	-	-	3.3	V
Reverse Breakdown Voltage	VBR	I _{BR} = 1mA, I/O Pin to GND	5	-	10	V
Forward Voltage	VF	$I_F = 15 \text{mA}$, I/O Pin to GND	-	1	-	V
Reverse Leakage Current	I _R	$V_R = 3.3V$, I/O Pin to GND	-	0.5	1	uA
Clamping Voltage	V _{CL}	I _{PP} = 5A, t _P =8/20μs, I/O pins to GND	-	3.2	4.2	V
Clamping Voltage TLP ^(Note 2)	Vcl	IPP = 16A, tP = 100ns, I/O Pin to GND	-	4.1	-	V
Off State Junction Capacitance (Note 3)	CJ	1.5Vdc Bias, f = 1MHz, I/O Pins to GND	-	0.29	0.34	pF

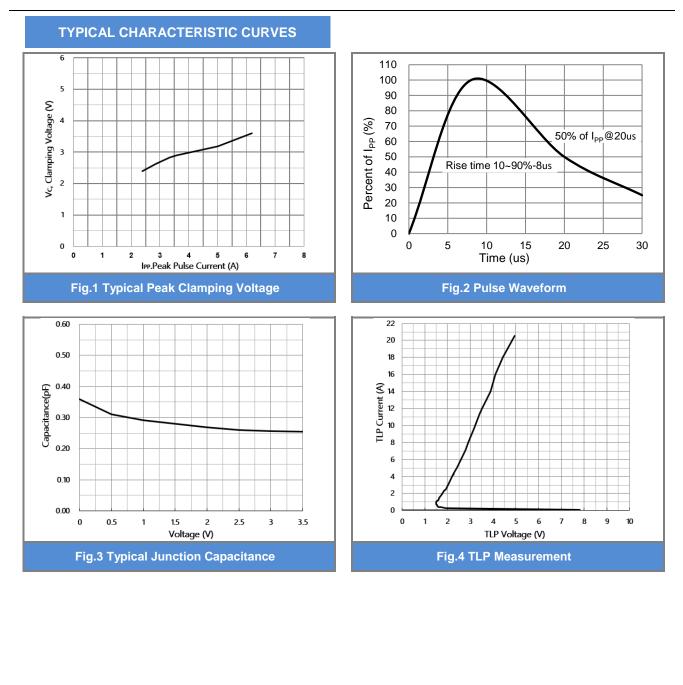
NOTES :

1. A transient suppressor is selected according to the working peak reverse voltage(V_{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: $Z0 = 50\Omega$, $t_P = 100$ ns.

3. This parameter is guaranteed by design.

PS4313-DFA

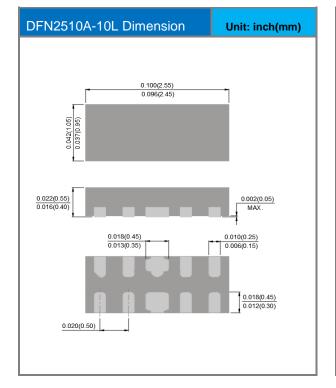


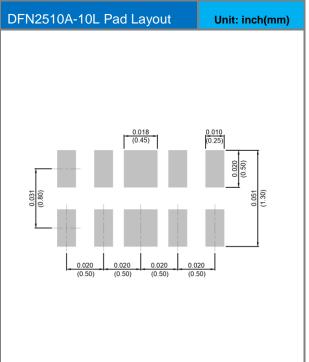


Product and Packing Information

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

Packaging Information & Mounting Pad Layout







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