

Maximum Ratings and Thermal Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	VALUE	UNITS	
ESD IEC61000-4-2(Air)	N	±18	kV	
ESD IEC61000-4-2(Contact)	Vesd	±16		
Operating Junction Temperature Range	TJ	-55 to +125	°C	
Storage Temperature Range	Tstg	-55 to +150	٥C	



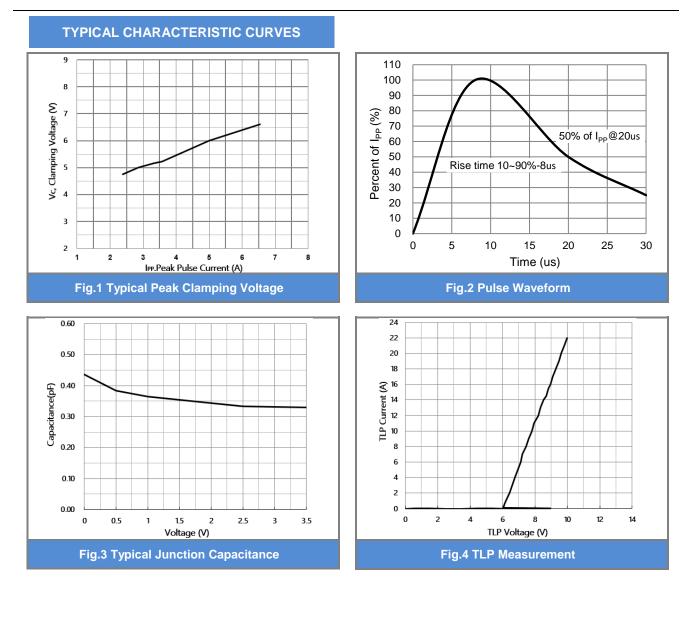
Electrical Characteristics (T_A = 25°C unless otherwise noted)

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 =15mA, 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} =6.5A, t _P =8/20μs, I/O pins to GND		6.5	7.5	V
Clamping Voltage TLP ^(Note 2)	Vcl	$I_{TLP} = 16A, t_P = 100ns,$ I/O Pin to GND		9	-	V
Off State Junction Capacitance (Note 3)	CJ	1.65Vdc Bias, f = 1MHz, I/O Pins to GND	-	0.38	0.48	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.



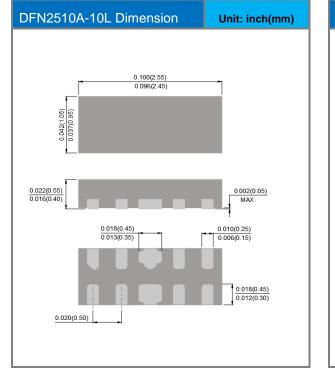


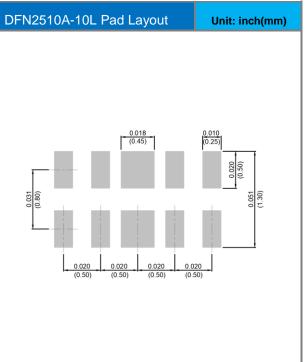


Product and Packing Information

Part No.	Package Type	Packing Type	Marking
PB4413-DFA	DFN2510A-10L	3K pcs / 7" reel	443A

Packaging Information & Mounting Pad Layout







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