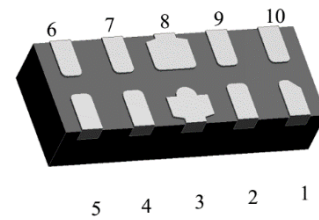
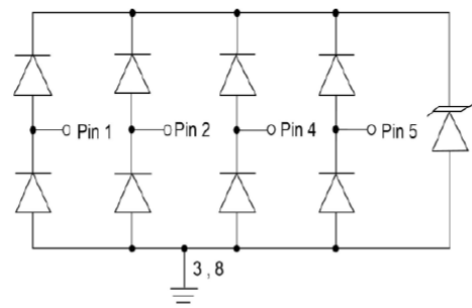


Features

- Transient protection for data&power lines to IEC 61000-4-2 (ESD): $\pm 15\text{kV}$ (air); $\pm 8\text{kV}$ (contact). IEC 61000-4-4 (EFT): 40A(5/50ns). IEC 61000-4-5 (Lightning): 5A(8/20us).
- Working Voltage: 3.3V.
- Low Clamping Voltage.
- Up to 4 Lines Protects.
- Ultra Low Capacitance: 0.3pF typical (I/O to I/O).
- RoHS compliant with Halogen-free

HF



LST3324A

DFN2510-10L

Typical Applications

- HDMI 1.3 & 1.4, USB 2.0 & 3.0 and MDDI ports.
- Monitors and Flat Panel Displays.
- Set-top Box and Digital TV.
- Video Graphics Cards.
- Digital Video Interface (DVI).
- Notebook Computers.
- PCI Express and Serial SATA Ports.

Mechanical Data

- Case: DFN2510-10L
- Molding compound, UL flammability classification rating 94V-0.
- Terminals: Tin plated leads, solderable per MIL-STD-202, Method 208.

Ordering Information

Part Number	Package	Shipping	Marking Code
LST3324A	DFN2510-10L	3000 pcs / Tape * Reel	3324

Maximum Ratings (@ $T_A=25^\circ\text{C}$ unless otherwise specified)

Characteristic	Symbol	Value	Units
Peak pulse power ($t_p = 8/20\mu\text{s}$)	P_{PK}	50	W
Peak pulse current ($t_p = 8/20\mu\text{s}$)	I_{PP}	5	A
Reverse Stand-off Voltage	V_{RWM}	3.3	V
ESD according to IEC61000-4-2 contact discharge	V_{ESD}	± 8	KV
ESD according to IEC61000-4-2 air discharge	V_{ESD}	± 15	KV

Thermal Characteristics

Parameter	Symbol	Value	Units
Thermal Resistance Junction-Ambient	$R_{\theta JA}$	277	$^{\circ}\text{C/W}$
Thermal Resistance Junction-Case	$R_{\theta JC}$	143	$^{\circ}\text{C/W}$
Thermal Resistance Junction-Lead	$R_{\theta JL}$	81	$^{\circ}\text{C/W}$
Junction temperature	T_J	-55 to +125	$^{\circ}\text{C}$
Storage temperature range	T_{STG}	-55 to +150	$^{\circ}\text{C}$

Electrical Characteristics (@ $T_A=25^{\circ}\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	Min.	Typ.	Max.	Units
Punch-Through Voltage	V_{PT}	$I_T=2\mu\text{A}$, Any I/O pin to GND	3.5	-	-	V
Snap-Back Voltage	V_{SB}	$I_T=50\text{mA}$, Any I/O pin to GND	2.8	-	-	V
Reverse leakage current	I_R	$V_{RWM}=3.3\text{V}$, Any I/O pin to GND	-	-	0.5	μA
Clamping voltage	V_C	$I_{PP}=1\text{A}$, $t_p=8/20\mu\text{s}$, Any I/O pin to GND	-	-	6.5	V
		$I_{PP}=5\text{A}$, $t_p=8/20\mu\text{s}$, Any I/O pin to GND	-	-	10	V
Junction capacitance	C_J	$V_R=0\text{V}$, $f=1\text{MHz}$, between I/O pins	-	0.3	0.4	pF
		$V_R=0\text{V}$, $f=1\text{MHz}$, any I/O pin to GND	-	-	0.8	pF

Ratings and Characteristic Curves ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

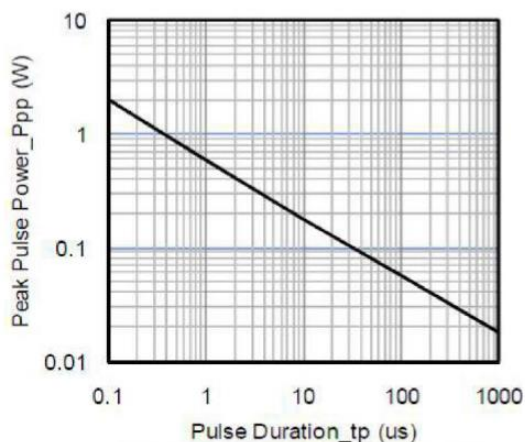


FIG.1 Peak Pulse Power vs. Pulse Time

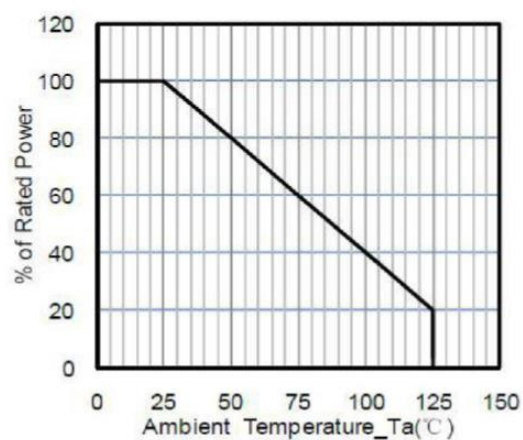


FIG.2 Power Derating Curve

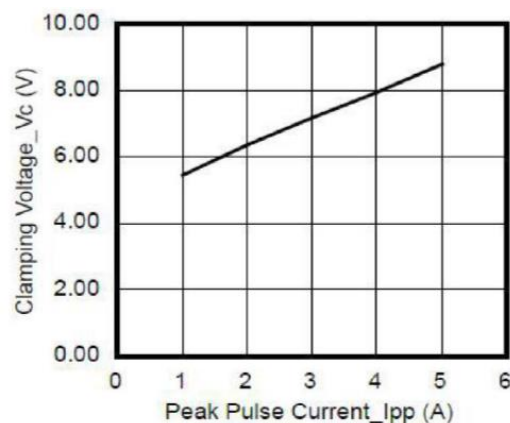


FIG.3 Clamping Voltage vs. Peak Pulse Current

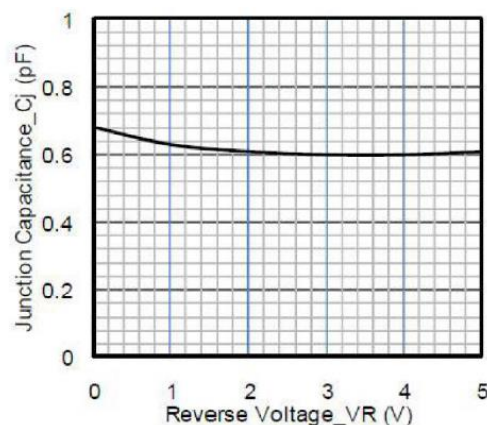


FIG.4 Junction Capacitance vs. Reverse Voltage

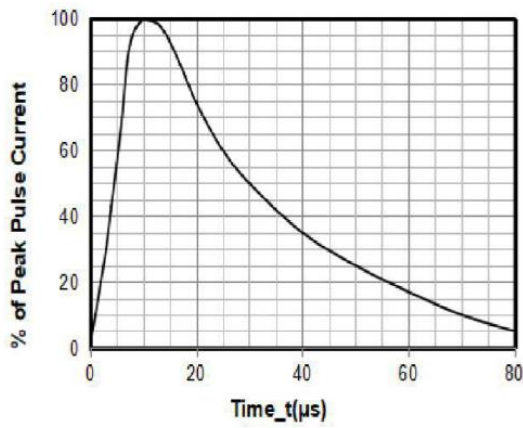
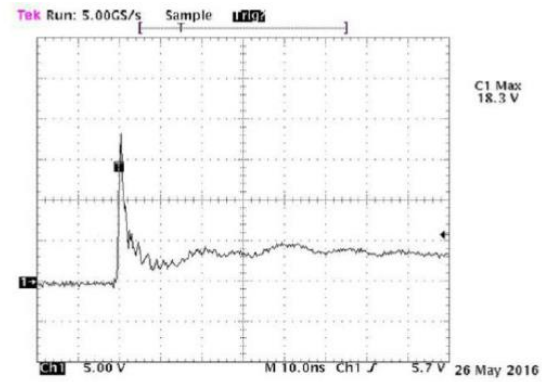


FIG.5 8/20us Pulse Waveform



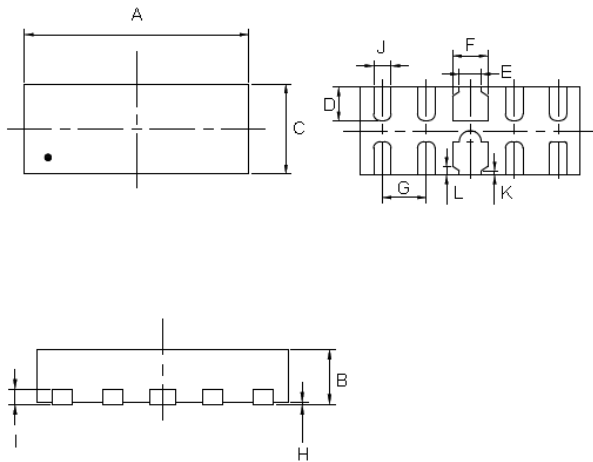
Note: Data is taken with a 10x attenuator

FIG.6 Contact Discharge current waveform

Per IEC 61000-4-2

Package Outline Dimensions (Unit: mm)

DFN2510-10L



DFN2510-10L		
Dimension	Min.	Max.
A	2.400	2.600
B	0.450	0.550
C	0.950	1.050
D	0.350	0.450
E	0.200	0.450
F	0.350	0.450
G	0.400	0.600
H	0.000	0.010
I	0.100	0.200
J	0.100	0.250
K	0.000	0.050
L	0.000	0.095

Mounting Pad Layout (Unit: mm)

DFN2510-10L

