Leiditech

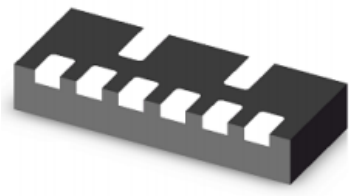
ULC0506N

6-CHANNEL LOW CAPACITANCE ESD PROTECTION DIODES ARRAY

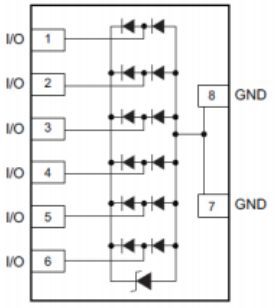
Features

- Ultra low leakage: nA level
- Operating voltage: 5V
- Low clamping voltage
- Channel I/O to I/O capacitance: 0.35pF
- Complies with following standards:
  - – IEC 61000-4-2 (ESD) immunity test
    - Air discharge: ±15kV
    - Contact discharge: ±8kV
  - – IEC61000-4-4 (EFT) 40A (5/50ns)
  - RoHS Compliant

Dimensions DFN3313



Pin Configuration



Applications

- USB 3.0 power and data line
- HDMI Set-top box and digital TV
- Digital video interface (DVI)
- Notebook Computers

Mechanical Characteristics

- Package: DFN3313
- Lead Finish: Lead Free
- UL Flammability Classification Rating 94V-0
- Quantity Per Reel:3,000pcs
- Reel Size:7 inch

Absolute Maximum Ratings(Tamb=25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (8/20μs)	Ppp	150	W
ESD per IEC 61000−4−2 (Air)	V_{ESD}	±15	Kv
ESD per IEC 61000−4−2 (Contact)		±8	
Operating Temperature Range	T_J	-55 to +125	℃
Storage Temperature Range	T_{STJ}	-55 to +150	℃

Electrical Characteristics (TA=25°C unless otherwise specified)

Part Number	Device Marking	V_{RWM} (V)	V_{BR} (V)	I_T (mA)	V_C @1A	Vc		I_R μA (Max)	C (Pf) (Typ.)
						(Max)	(@A)		
ULC0506N	24Q	5	6	1	8.5	12	5	1	0.35

Characteristic Curves

Fig1. 8/20μs Pulse Waveform

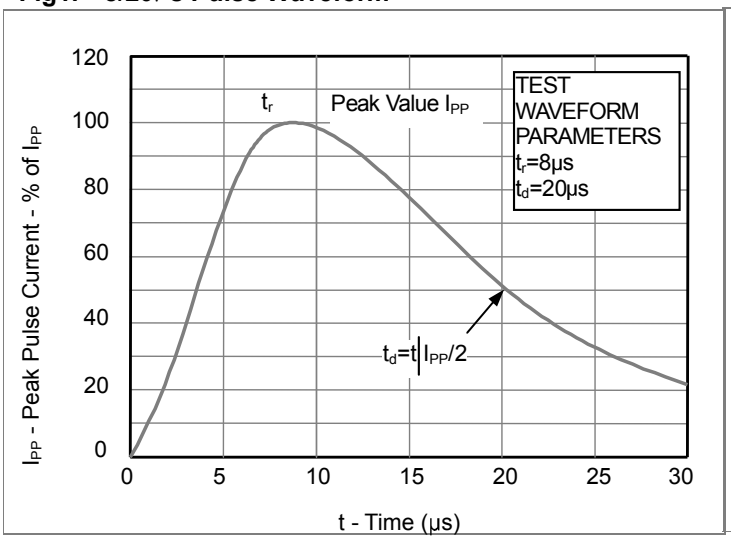


Fig2. ESD Pulse Waveform (according to IEC 61000-4-2)

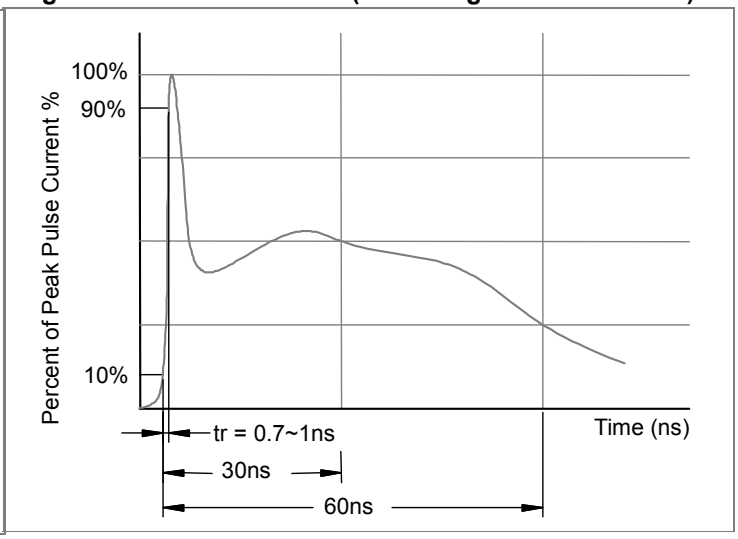
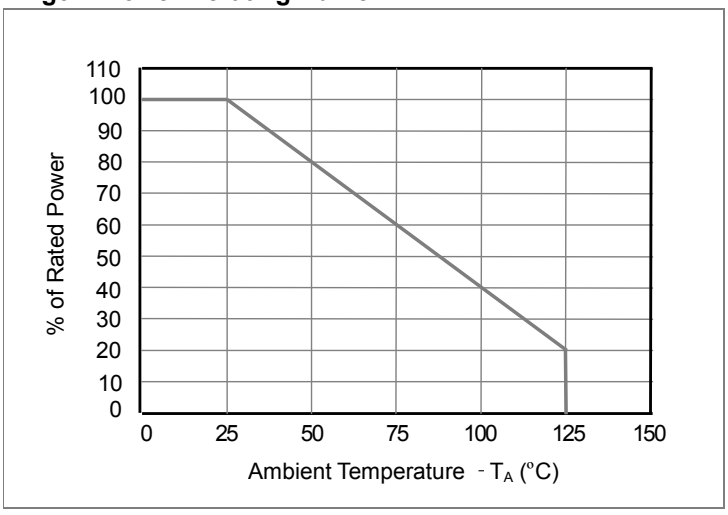
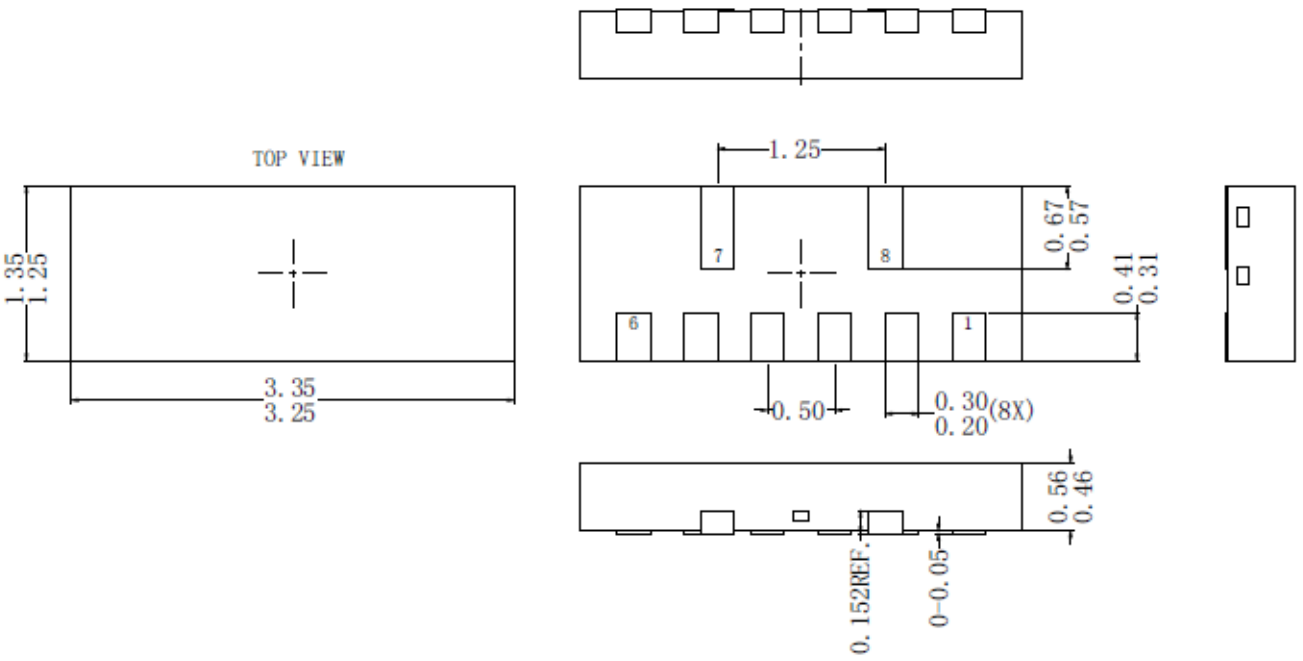


Fig3. Power Derating Curve



DIMENSION: **UNIT:mm**



Shanghai Leiditech Electronic Co.,Ltd
Email: sale1@leiditech.com
Tel : +86- 021 50828806
Fax : +86- 021 50477059