

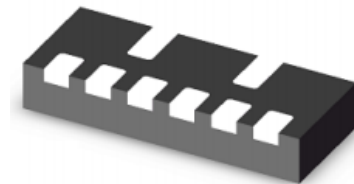


6-CHANNEL LOW CAPACITANCE ESD PROTECTION DIODES ARRAY

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

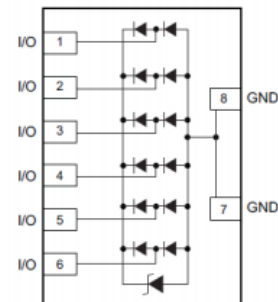
Dimensions DFN3313



Applications

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

Pin Configuration



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) | P _{pp} | 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 | °C |
| Storage Temperature Range | T _{STJ} | -55 to +150 | °C |

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

| Part Number | Device Marking | V _{RWM} (V) | V _{BR} (V) | I _T (mA) | V _C @1A | V _C | | 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

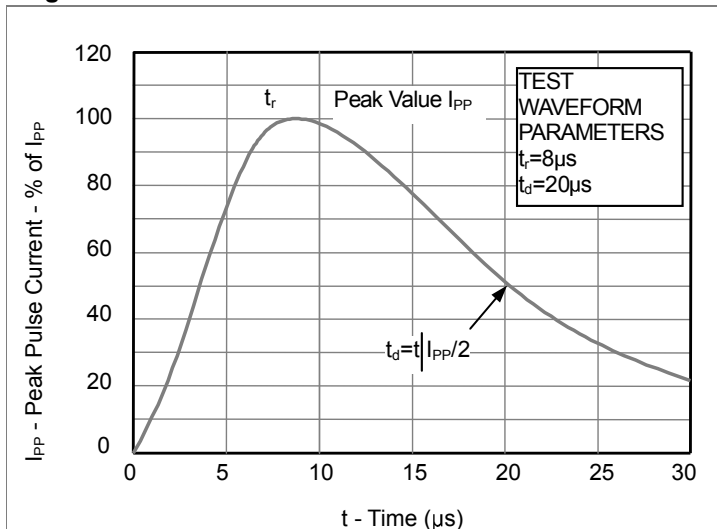


Fig2. ESD Pulse Waveform (according to IEC 61000-4-2)

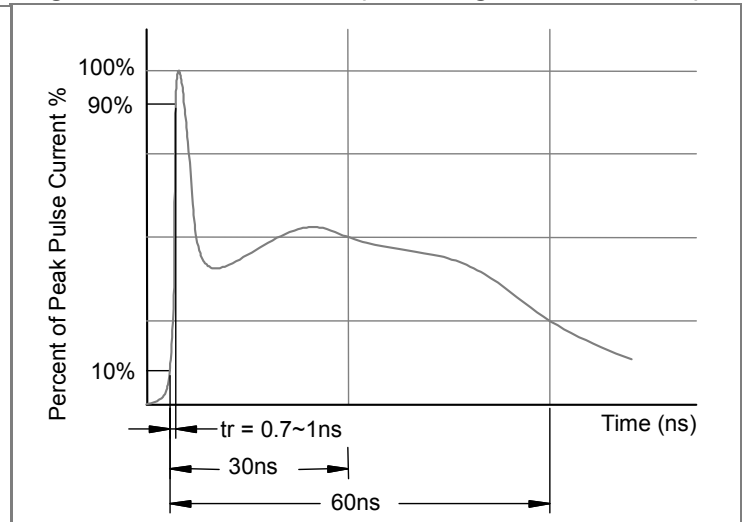
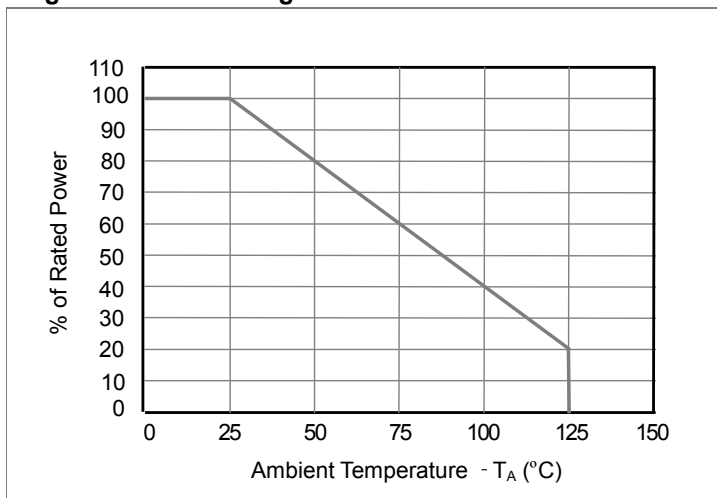


Fig3. Power Derating Curve



DIMENSION:

UNIT:mm

