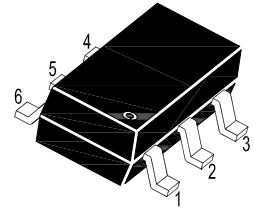
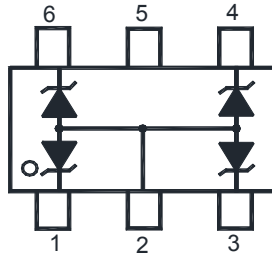


ESDLC2527DW

ESD Protection Diode

Features

- 4 channels
- Low leakage current



1. I/O1 2. GND 3. I/O2
4. I/O3 5. NC 6. I/O4

Marking Code : 4T

SOT-363 Plastic package

Applications

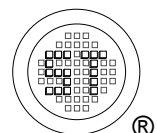
- Computers
- Printers
- Communication systems
- Cellular phones handsets and accessories
- Wireline and wireless telephone sets
- Set top boxes

Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

| Parameter | Symbol | Value | Unit |
|--|-----------|----------------------|------------------|
| Peak Pulse Power ($t_p = 8/20\ \mu\text{s}$) | P_{PK} | 150 | W |
| Peak Pulse Current ($t_p = 8/20\ \mu\text{s}$) | I_{PP} | 3 | A |
| IEC61000-4-2 (ESD) Air Contact | V_{PP} | ± 30 ± 30 | KV |
| Operating Temperature Range | T_j | 125 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{stg} | - 55 to + 150 | $^\circ\text{C}$ |

Characteristics at $T_a = 25\text{ }^\circ\text{C}$

| Parameter | Symbol | Min. | Typ. | Max. | Unit |
|--|-------------|------|------|------|---------------|
| Reverse Stand-Off Voltage | V_{RWM} | - | - | 24 | V |
| Reverse Breakdown Voltage at $I_R = 1\ \text{mA}$ | $V_{(BR)R}$ | 25 | - | 30 | V |
| Reverse Current at $V_R = 24\ \text{V}$ | I_R | - | - | 1 | μA |
| Forward Voltage at $I_F = 10\ \text{mA}$ | V_F | - | - | 1.2 | V |
| Clamping Voltage at $I_{PP} = 3\ \text{A}$, $t_p = 8/20\ \mu\text{s}$ | V_C | - | - | 50 | V |
| Junction Capacitance at $V_R = 0\ \text{V}$, $f = 1\ \text{MHz}$ | C_j | - | 35 | - | pF |



ESDLC2527DW

Electrical Characteristics Curves

Fig 1. Pulse Waveform

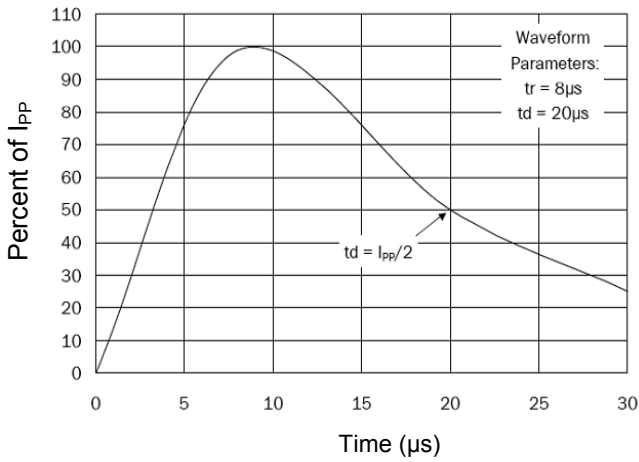


Fig 2. Power Derating Curve

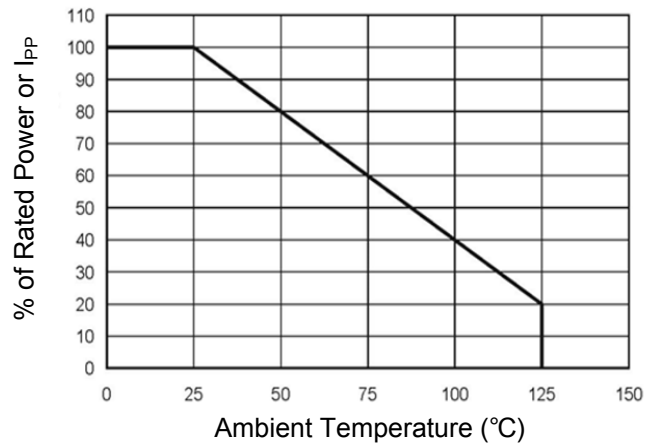


Fig 3. Clamping Voltage Curve

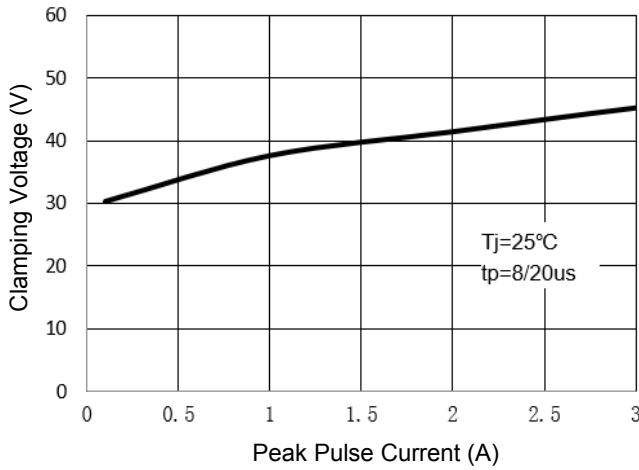


Fig 4. Junction Capacitance

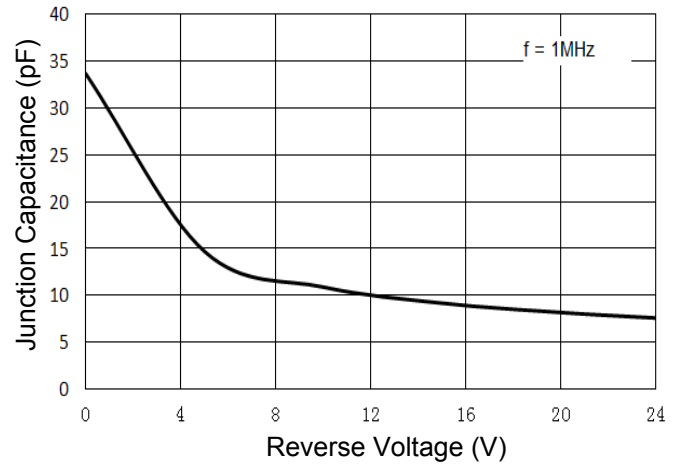
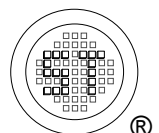
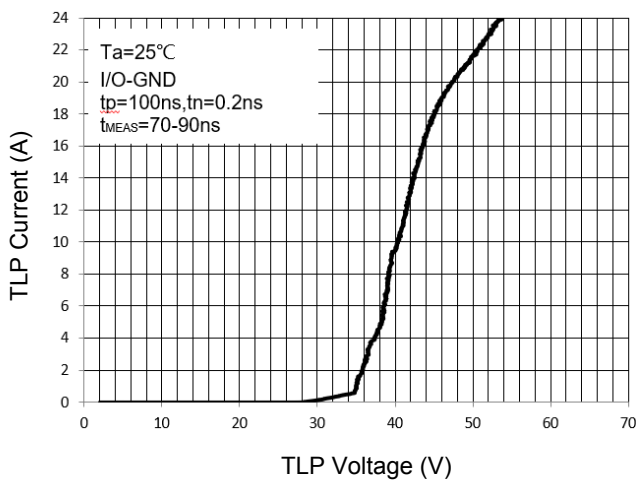


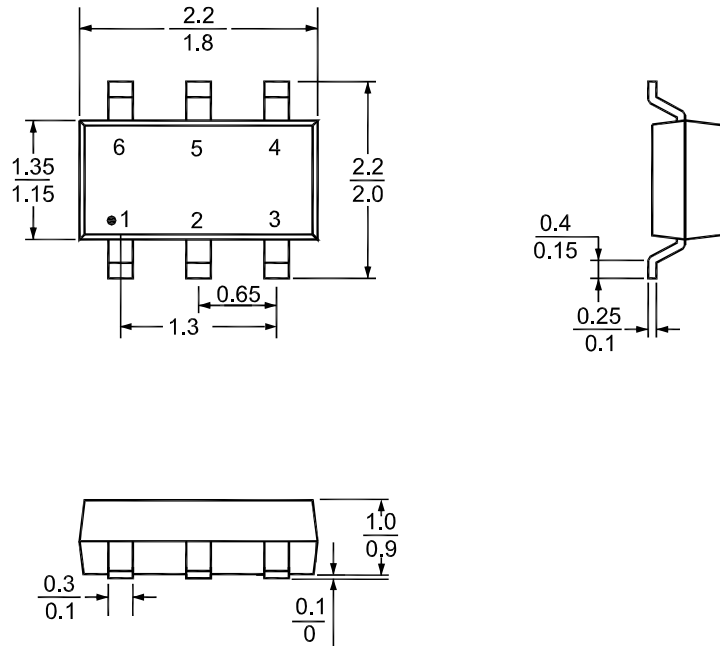
Fig 5 TLP Curve



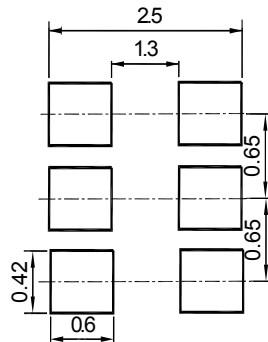
ESDLC2527DW

Package Outline Dimensions (Units: mm)

SOT-363



Recommended Soldering Footprint



Packing information

| Package | Tape Width (mm) | Pitch | | Reel Size | | Per Reel Packing Quantity |
|---------|-----------------|---------|---------------|-----------|------|---------------------------|
| | | mm | inch | mm | inch | |
| SOT-363 | 8 | 4 ± 0.1 | 0.157 ± 0.004 | 178 | 7 | 3,000 |

Marking information

" 4T " = Part No.
 "YM" = Date Code Marking
 "Y" = Year
 "M" = Month
 Font type: Arial

