

DY2L3A0C0L1

TVS Diode DY2L3A0C0L1

Silicon epitaxial planar type

For bidirectional ESD protection and transient voltage suppressor

Features

- IEC 61000-4-2 (ESD) ±15kV (air and contact)
- Low clamping voltage
- · Low capacitance
- · Low leak current
- Halogen-free / RoHS compliant
 (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)
- Marking Symbol: F1

Packaging

Embossed type (Thermo-compression sealing): 1 000 pcs / reel (standard)

■ Absolute Maximum Ratings Ta = 25 °C

| Parameter | Symbol | Rating | Unit | |
|---------------------------------------|--------|-------------|------|--|
| Total power dissipation ^{*1} | PT | 100 | mW | |
| Electrostatic discharge *2 | ESD | ±15 | kV | |
| Peak pulse power *3 | Ррр | 23 | W | |
| Peak pulse current *3 | lpp | 2.6 | Α | |
| Junction temperature | Tj | 150 | °C | |
| Operating ambient temperature | Topr | -40 to +85 | °C | |
| Storage temperature | Tstg | -55 to +150 | °C | |

Note: *1 Mounted on FR4 board. (25.4 mm x 25.4 mm x 1.0 mm)

*2 Test method:IEC61000-4-2

(C = 150 pF, R = 330 Ω , Contact and Air discharge:10 times)

*3 Test method:IEC61000-4-5 (tp = 8/20µs, Unrepeated)



| Parameter | Symbol | Conditions | Min | Тур | Max | Unit | |
|----------------------------------|--------|---------------------------|------|------|------|------|--|
| Reverse stand-off voltage | VRWM | _ | | | 3.0 | V | |
| Reverse breakdown voltage *1, *2 | VBR | IR = 5 mA | 5.39 | 5.80 | 6.21 | V | |
| Reverse current | IR | VR = 3 V | | | 10 | μA | |
| Clamping voltage *3 | Vc | lpp = 2.6 A, tp = 8/20 μs | | | 10 | V | |
| Terminal capacitance | Ct | VR = 0 V, f = 1 MHz | | 8.5 | | pF | |

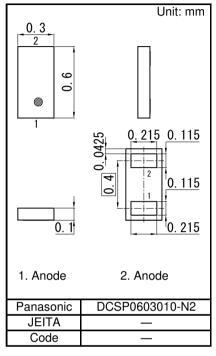
Note: 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

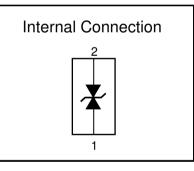
2. Absolute frequency of input and output is 5 MHz.

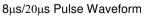
3. *1 The temperature must be controlled 25°C for VBR mesurement.

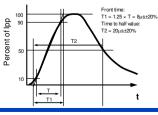
VBR value measured at other temperature must be adjusted to VBR (25°C). *2 VBR guaranted 20 ms after current flow.

*3 8µs/20µs Pulse Waveform





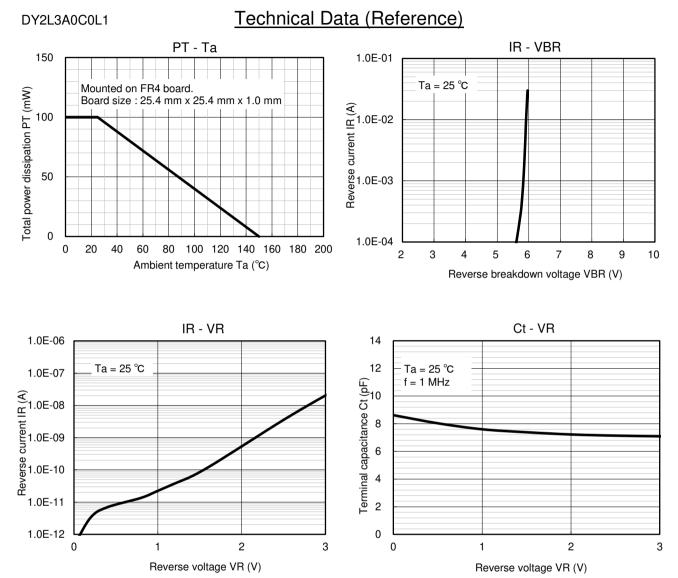


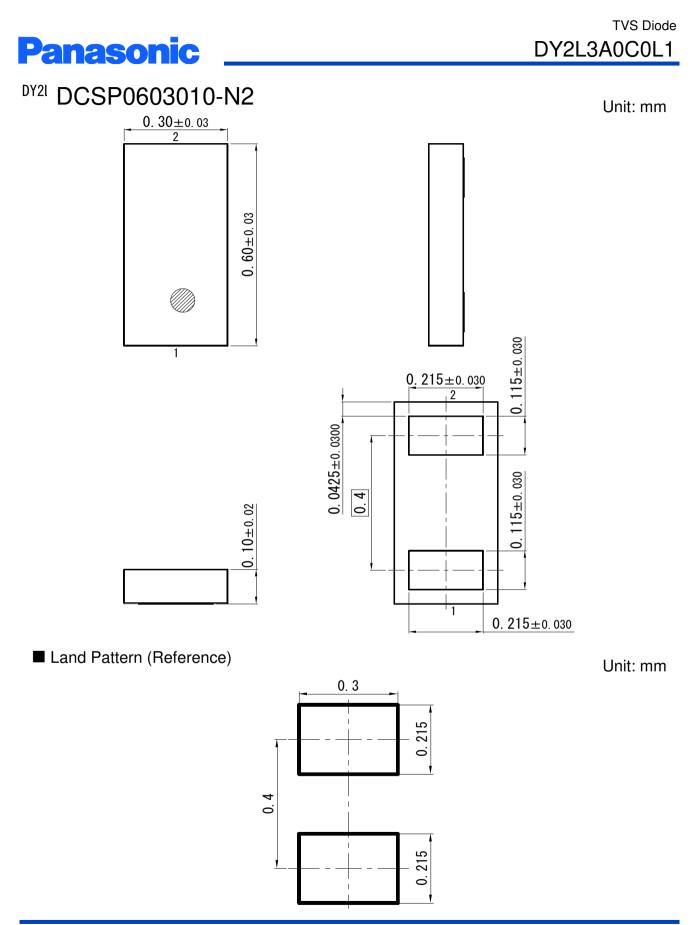


Doc No. TT4-EA-15066 Revision. 1



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