

DY2L5A0C0L1

TVS Diode DY2L5A0C0L1

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: F4

Packaging

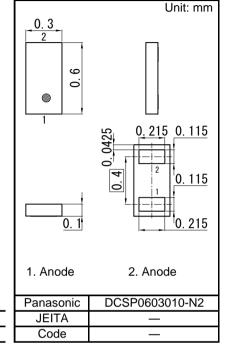
Embossed type (Thermo-compression sealing): 1 000 pcs / reel (standard)

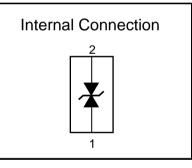
Absolute Maximum Ratings Ta = 25 °C Rating Parameter Symbol PT 100 Total power dissipation ESD ±15 Electrostatic discharge Peak pulse power *3 Ppp 20 Peak pulse current *3 1.8 Ipp

Junction temperatureTj150°COperating ambient temperatureTopr-40 to +85°CStorage temperatureTstg-55 to +150°CNote: *1Mounted 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 = $8/20\mu$ s, Unrepeated)





Electrical Characteristics $Ta = 25 \circ C \pm 3 \circ C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse stand-off voltage	VRWM	_			5.0	V
Reverse breakdown voltage *1, *2	VBR	IR = 5 mA	7.0	7.5	8.0	V
Reverse current	IR	VR = 5 V			50	nA
Clamping voltage *3	Vc	lpp = 1.8 A, tp = 8/20 μs			13	V
Terminal capacitance	Ct	VR = 0 V, f = 1 MHz		6.0		pF

Unit

mW

kV

W

А

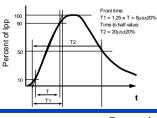
 Note: 1.
 Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031

 measuring methods for diodes.
 8μs/20μs Pulse Waveform

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

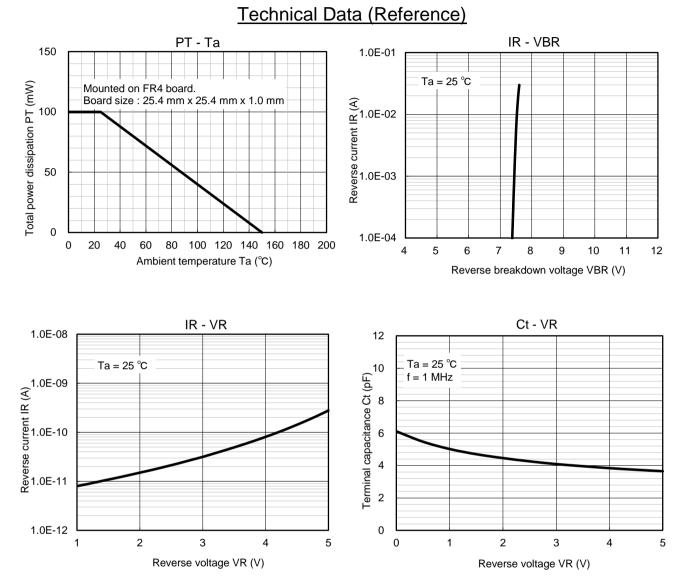
- 3. *1 The temperature must be controlled 25°C for VBR mesurement.
 - VBR value measured at other temperature must be adjusted to VBR (25°C). *2 VBR guaranted 20 ms after current flow.

*3 8µs/20µs Pulse Waveform

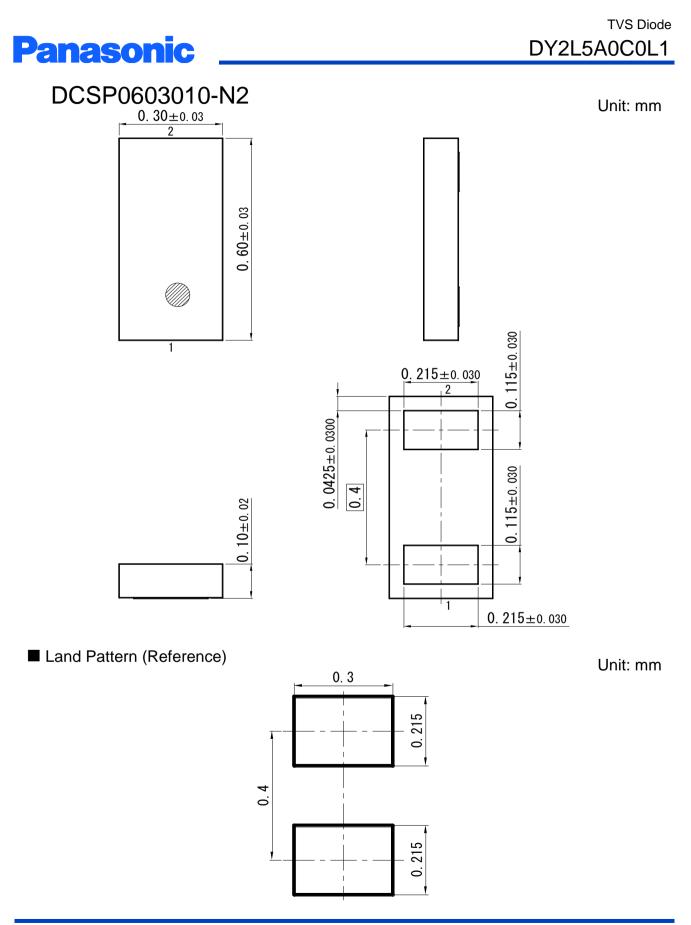




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