

DY2L3A3C0L1

TVS Diode DY2L3A3C0L1

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: F2

Packaging

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

■ Absolute Maximum Ratings Ta = 25 °C Parameter Symbol

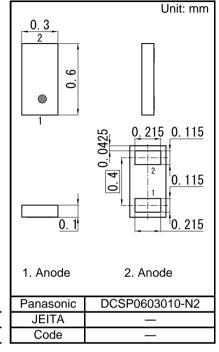
		5	
Total power dissipation ^{*1}	PT	100	mW
Electrostatic discharge *2	ESD	±15	kV
Peak pulse power *3	Ррр	22	W
Peak pulse current *3	lpp	2.4	А
Junction temperature	Tj	150	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-55 to +150	°C

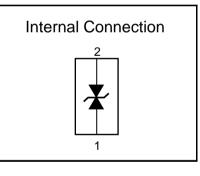
Note: *1 Mounted on FR4 board. (25.4 mm x 25.4 mm x 1.0 mm)

*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)





■ Electrical Characteristics Ta = 25 °C ± 3 °C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit	
Reverse stand-off voltage	VRWM	—			3.3	V	
Reverse breakdown voltage *1, *2	VBR	IR = 5 mA	5.86	6.30	6.74	V	
Reverse current	IR	VR = 3.3 V			1.0	μΑ	
Clamping voltage *3	Vc	lpp = 2.4 A, tp = 8/20 μs			11	V	
Terminal capacitance	Ct	VR = 0 V, f = 1 MHz		7.5		pF	

Rating

Unit

L

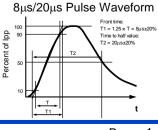
Note: 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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

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

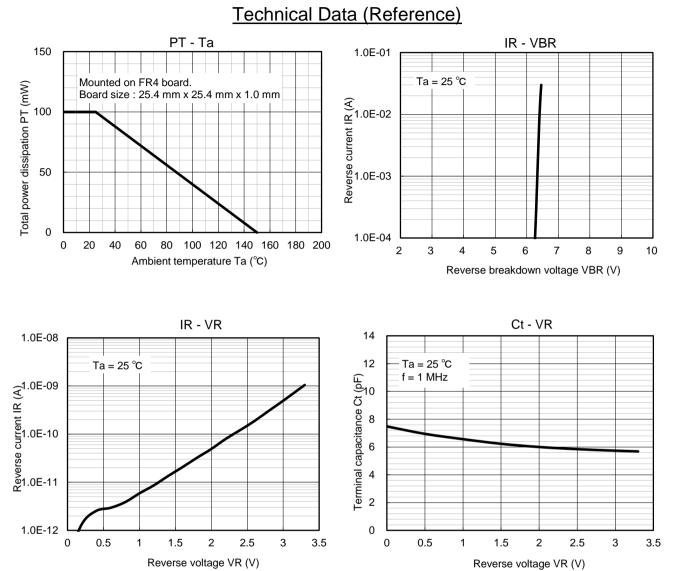
VBR value measured at other temperature must be adjusted to VBR (25°C). *2 VBR guaranted 20 ms after current flow.

*3 8µs/20µs Pulse Waveform

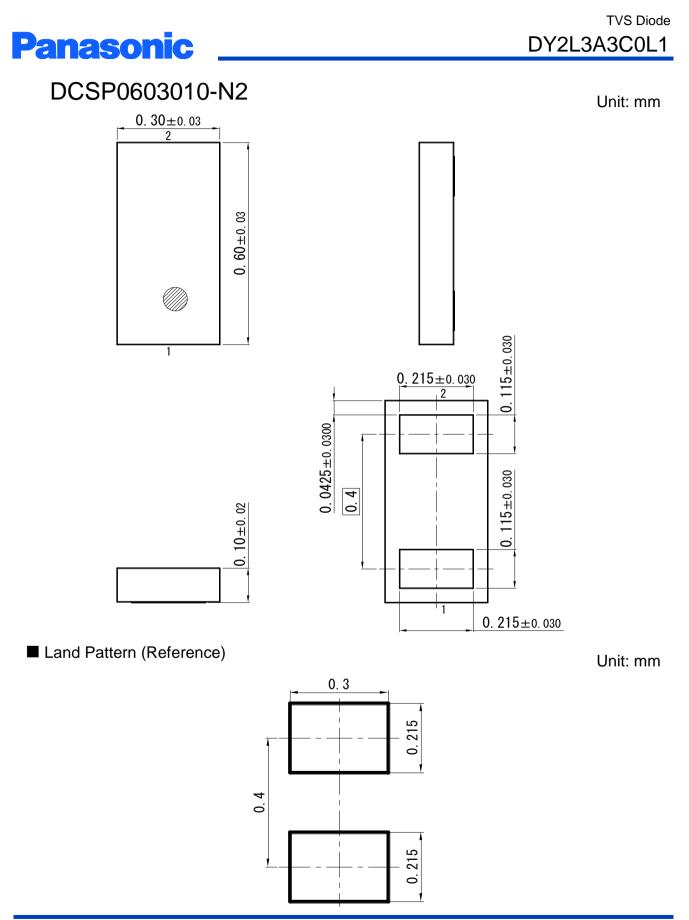




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