imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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Contact us

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DY2L4A0C0L1

TVS Diode DY2L4A0C0L1

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: F3

Packaging

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

■ Absolute Maximum Ratings Ta = 25 °C

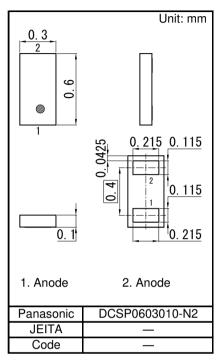
Parameter	Symbol	Rating	Unit	
Total power dissipation ^{*1}	PT	100	mW	
Electrostatic discharge *2	ESD	±15	kV	
Peak pulse power *3	Ррр	21	W	
Peak pulse current *3	lpp	2.1	А	
Junction temperature	Tj	150	°C	
Operating ambient temperature	Topr	-40 to +85	°C	
Storage temperature	Tstg	-55 to +150	°C	

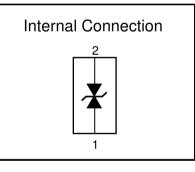
Note: *1 Mounted on FR4 board. (25.4 mm x 25.4 mm x 1.0 mm)

*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 = $8/20\mu$ s, Unrepeated)





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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit	
Reverse stand-off voltage	VRWM	—			4.0	V	
Reverse breakdown voltage *1, *2	VBR	IR = 5 mA	6.42	6.90	7.38	V	
Reverse current	IR	VR = 4 V			50	nA	
Clamping voltage *3	Vc	lpp = 2.1 A, tp = 8/20 μs			12	V	
Terminal capacitance	Ct	VR = 0 V, f = 1 MHz		6.5		pF	

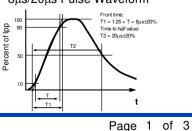
Note: 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

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

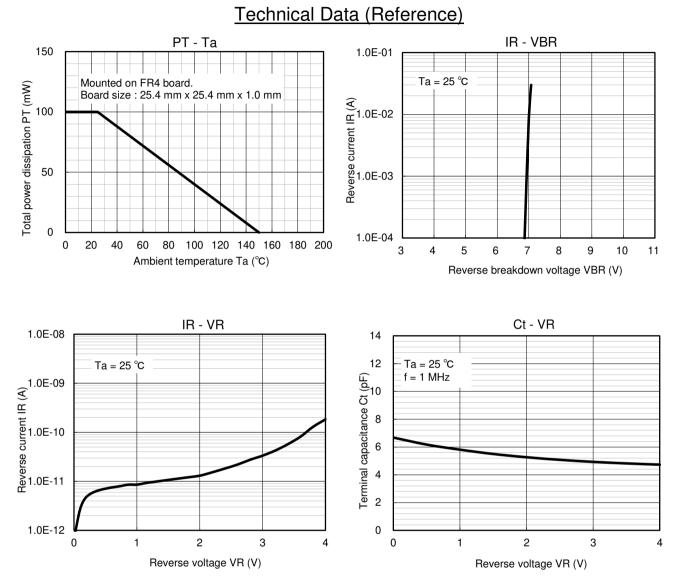


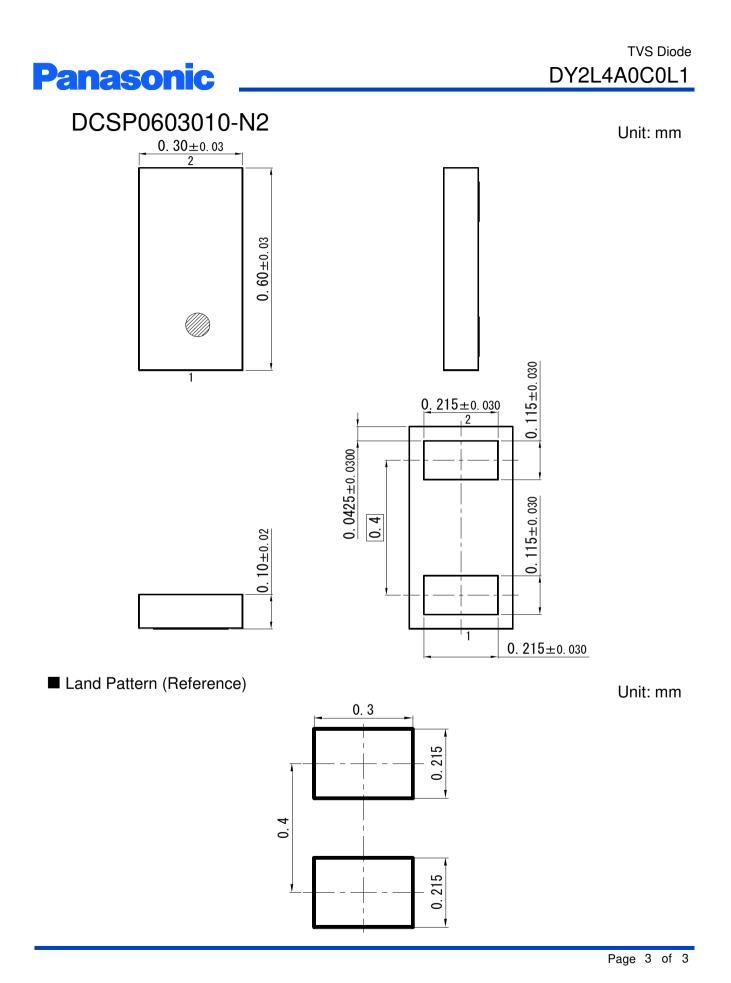
Established : 2015-10-13 Revised : ####-##





TVS Diode DY2L4A0C0L1





Established : 2015-10-13 Revised : ####-##-

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