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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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TVS Diode

DY2L3A3C0L1

Panasonic

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

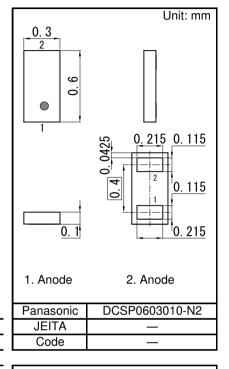
Parameter	Symbol	Rating	Unit
Total power dissipation *1	PT	100	mW
Electrostatic discharge *2	ESD	±15	kV
Peak pulse power *3	Ppp	22	W
Peak pulse current *3	lpp	2.4	Α
Junction temperature	Tj	150	°C
Operating ambient temperature	Topr	-40 to +85	°C
Storage temperature	Tstg	-55 to +150	°C

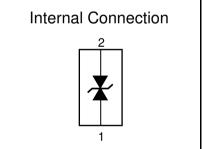
Note: *1 Mounted on FR4 board. (25.4 mm x 25.4 mm x 1.0 mm)

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



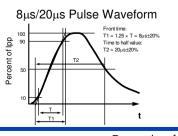


■ Electrical Characteristics Ta = 25 °C ± 3 °C

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

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.
- *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



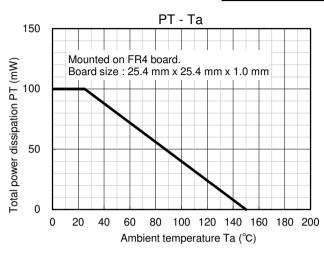
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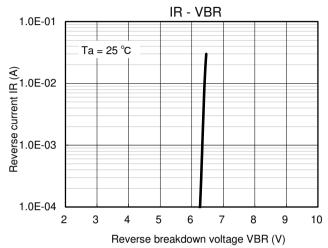
Established : 2015-10-13 Revised : ###-##-## **Panasonic**

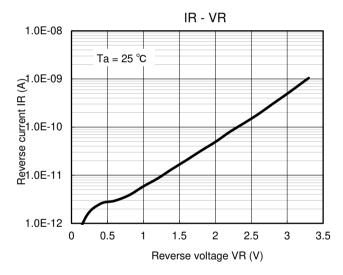
TVS Diode

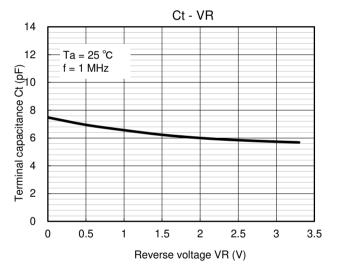
DY2L3A3C0L1

Technical Data (Reference)









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

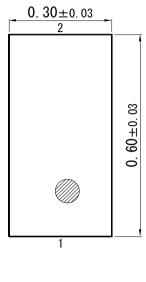
TVS Diode

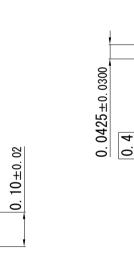
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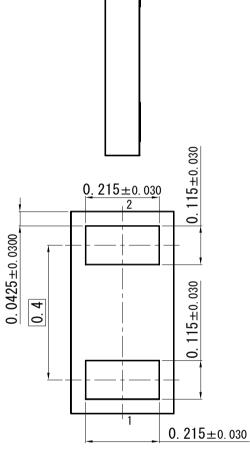
Panasonic

DCSP0603010-N2

Unit: mm

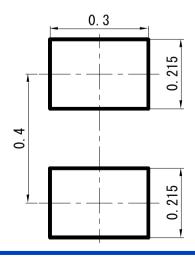






■ Land Pattern (Reference)

Unit: mm



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