TVS Diode

### DY2L3A0C0L1

# **Panasonic**

### 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)

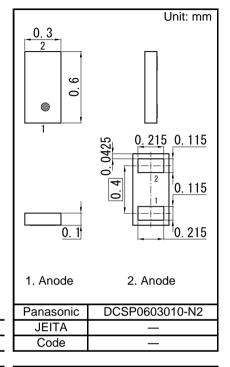
■ Absolute Maximum Ratings Ta = 25 °C

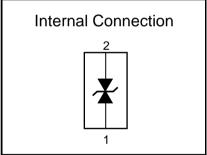
Parameter	Symbol	Rating	Unit
Total power dissipation *1	PT	100	mW
Electrostatic discharge *2	ESD	±15	kV
Peak pulse power *3	Ppp	23	W
Peak pulse current *3	lpp	2.6	Α
Junction temperature	Tj	150	ç
Operating ambient temperature	Topr	-40 to +85	ç
Storage temperature	Tstg	-55 to +150	°C

- 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  $\Omega$ , Contact and Air discharge:10 times)

\*3 Test method:IEC61000-4-5 (tp =  $8/20\mu s$ , Unrepeated)





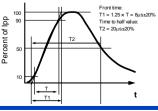
#### ■ Electrical Characteristics Ta = 25 °C ± 3 °C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse stand-off voltage	VRWM	_			3.0	V
Reverse breakdown voltage *1, *2	VBR	IR = 5  mA	5.39	5.80	6.21	V
Reverse current	IR	VR = 3 V			10	μΑ
Clamping voltage *3	Vc	Ipp = 2.6 A, tp = $8/20 \mu s$			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.
- \*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

8μs/20μs Pulse Waveform



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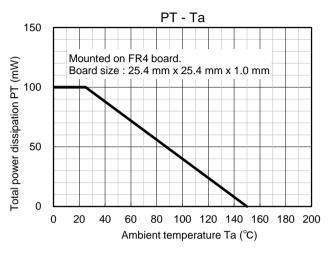
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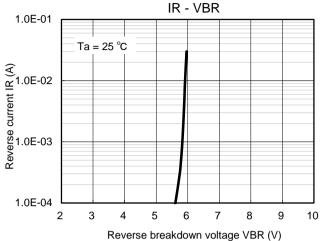
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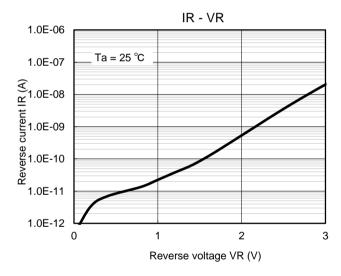
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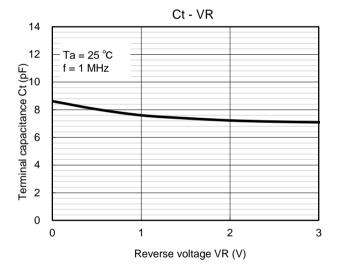
#### DY2L3A0C0L1

## Technical Data (Reference)









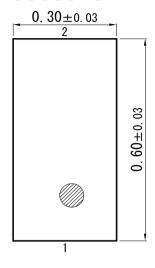
TVS Diode

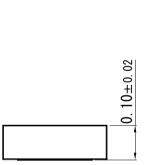
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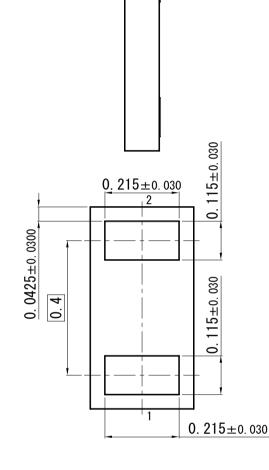
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DCSP0603010-N2

Unit: mm

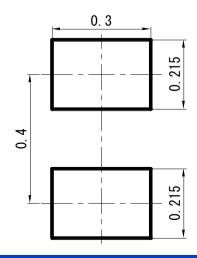






■ Land Pattern (Reference)

Unit: mm



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

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