

For rectification

#### Features

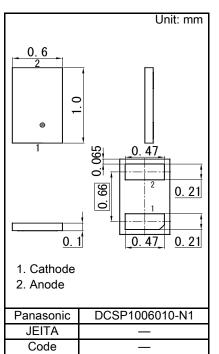
- · Low forward voltage VF
  - Forward current (Average) IF(AV) ≦ 1.0 A rectification is possible
- RoHS compliant (EU RoHS / MSL:Level 1 compliant)
- Marking Symbol: A4

#### Packaging

Embossed type (Thermo-compression sealing) : 20 000 pcs / reel (standard)

#### Absolute Maximum Ratings

| Parameter                                      | Symbol | Min | Max  | Unit |
|--|--------|-----|------|------|
| Reverse Voltage <sup>*1</sup>                  | VR     | I   | 30   | V    |
| Maximum Peak Reverse Voltage *1                | VRM    | -   | 30   | V    |
| Average Forward Current *2,3                   | IF(AV) | -   | 1.0  | А    |
| Average Forward Current *2,4                   | IF(AV) | -   | 1.0  | А    |
| Non-repetitive Peak Surge Forward Current *1,5 | IFSM   | -   | 15   | А    |
| Operating Junction Temperature *6              | Tj     | -   | 150  | °C   |
| Ambient Temperature                            | Та     | -40 | +150 | °C   |
| Storage Temperature                            | Tstg   | -55 | +150 | °C   |



Note) \*1: Ta = Tj = 25°C

\*2: Squre wave :  $\sigma = 0.5$ 

\*3: Ta ≤ 102°C, when device mounted on a FR4 PCB (25.4mm×25.4mm, 1mm thick), copper wiring (620.0mm<sup>2</sup> area, 36µm thick).
\*4: Tsp ≤ 139°C

- \*5: Squre wave : Tp = 5 ms
- \*6: Power derating is necessary so that Tj < 150°C.

(Waveform definition)

Du

ty Cycle : 
$$\sigma = \frac{Tp}{T}$$

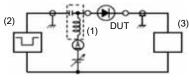
### ■ Electrical Characteristics Ta = 25 °C ± 3 °C

| Parameter                           | Symbol | Conditions                    | Min | Тур  | Max  | Unit |
|-------------------------------------|--------|-------------------------------|-----|------|------|------|
| Forward Voltage                     | VF     | IF = 1.0 A                    | -   | 0.35 | 0.44 | V    |
| Reverse Current                     | IR     | VR = 30 V                     | -   | 200  | 900  | μA   |
| Terminal Capacitance                | Ct     | VR = 10 V, f = 1 MHz          | -   | 32   | -    | pF   |
| Reverse Recovery Time <sup>*1</sup> | trr    | IF = IR = 100 mA, Irr = 10 mA | -   | 10   | -    | ns   |

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.
2. This product is sensitive to electric shock (static electricity, etc.).

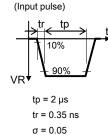
Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment. 3. \*1: Measurement circuit, input pulse, output pulse for Reverse recovery time

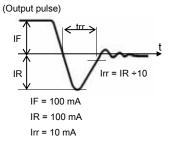
(Measurement circuit)





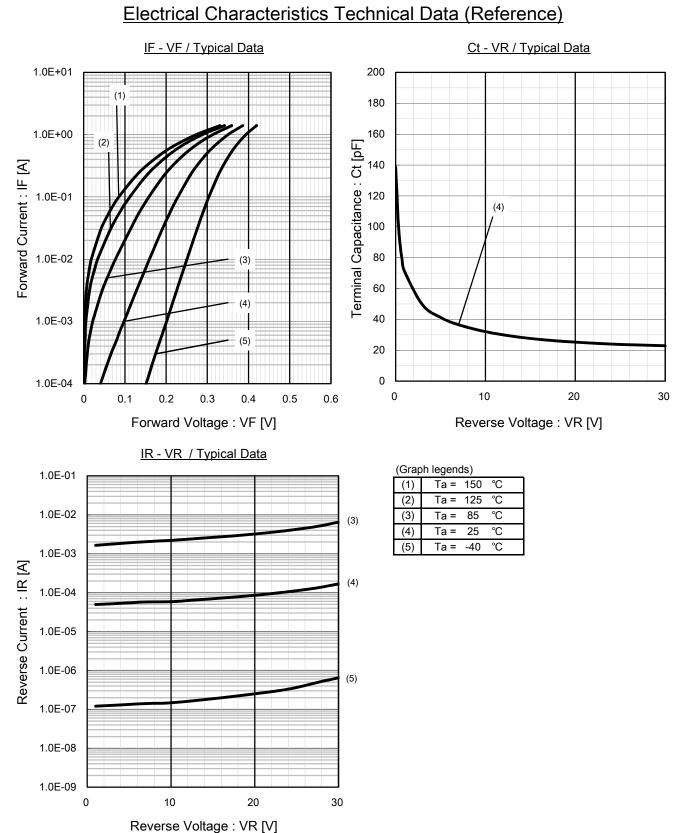
- (2) Pulse Generator (PG-10N), RS = 50  $\Omega$
- (3) Wave Form Analyzer (SAS-8130), Ri = 50  $\Omega$





Time

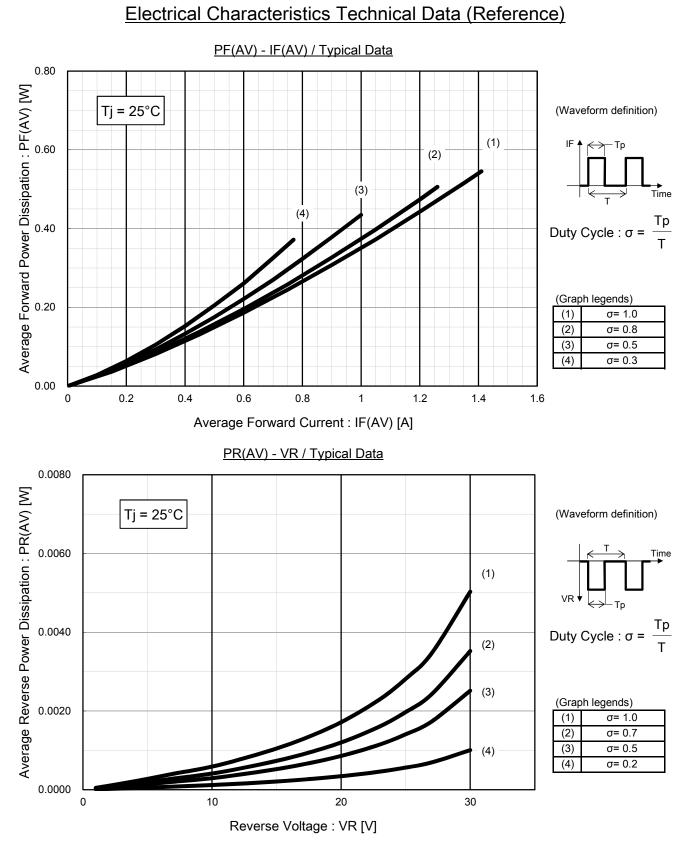




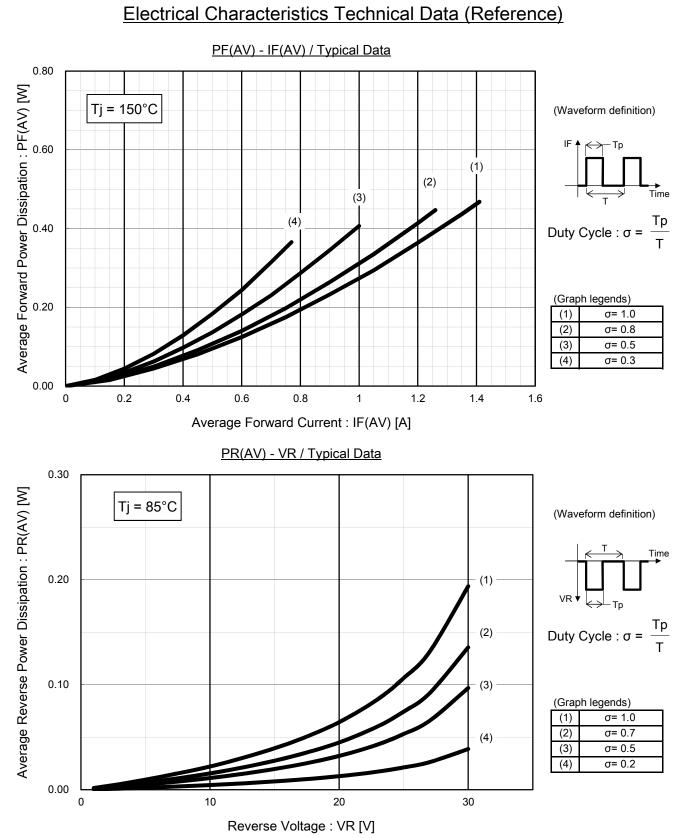
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# **Panasonic**

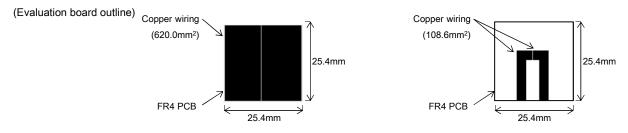
# Schottky Barrier Diode DB2G32600L

#### Thermal Characteristics

| Parameter   | Symbol               | Conditions             | Min | Тур | Max | Unit |
|---|----------------------|------------------------|-----|-----|-----|------|
| Thermal Resistance, Junction to Solder Point          | $R_{th(j-sp)}$       | Ta = 25°C, in free air | -   | 20  | -   | °C/W |
| Thermal Resistance, Junction to Ambient <sup>*1</sup> | R <sub>th(j-a)</sub> | Ta = 25℃, in free air  | -   | 92  | -   | °C/W |
| Thermal Resistance, Junction to Ambient $^{*2}$       | R <sub>th(j-a)</sub> | Ta = 25°C, in free air | -   | 170 | -   | °C/W |

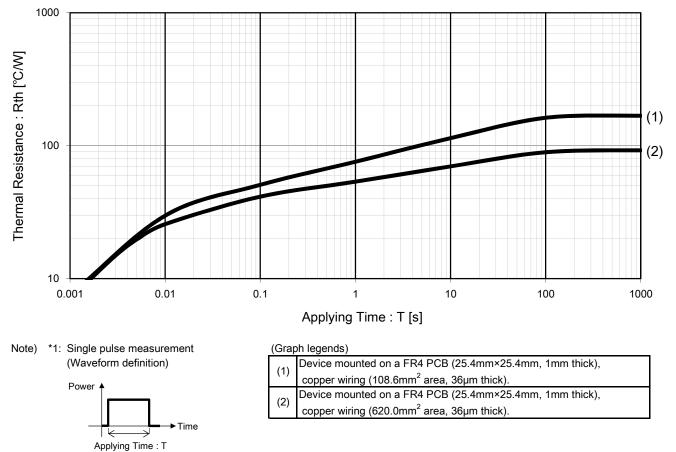
Note) \*1: Device mounted on a FR4 PCB (25.4mm×25.4mm, 1mm thick), copper wiring (620.0mm<sup>2</sup> area, 36µm thick).

\*2: Device mounted on a FR4 PCB (25.4mm×25.4mm, 1mm thick), copper wiring (108.6mm<sup>2</sup> area, 36µm thick).



### Thermal Characteristics Technical Data (Reference)

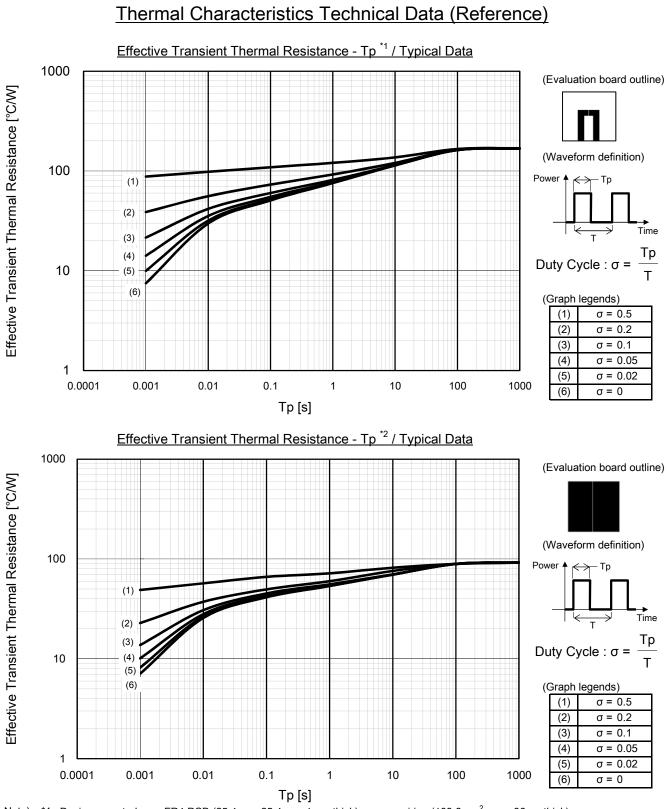
Rth - T \*1 / Typical Data



Doc No. TT4-EA-14985 Revision. 2

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Schottky Barrier Diode DB2G32600L



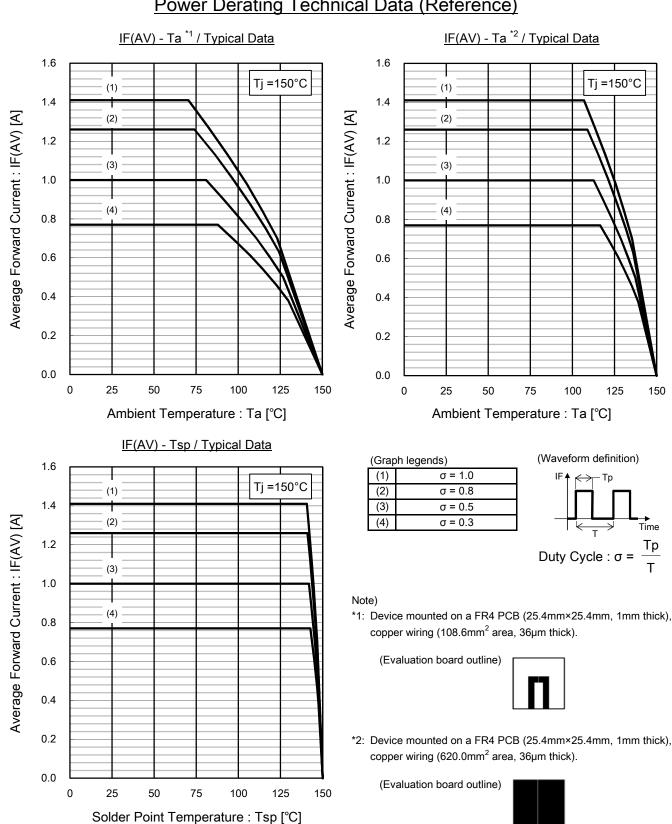
Note) \*1: Device mounted on a FR4 PCB (25.4mm×25.4mm, 1mm thick), copper wiring (108.6mm<sup>2</sup> area, 36µm thick).
\*2: Device mounted on a FR4 PCB (25.4mm×25.4mm, 1mm thick), copper wiring (620.0mm<sup>2</sup> area, 36µm thick).

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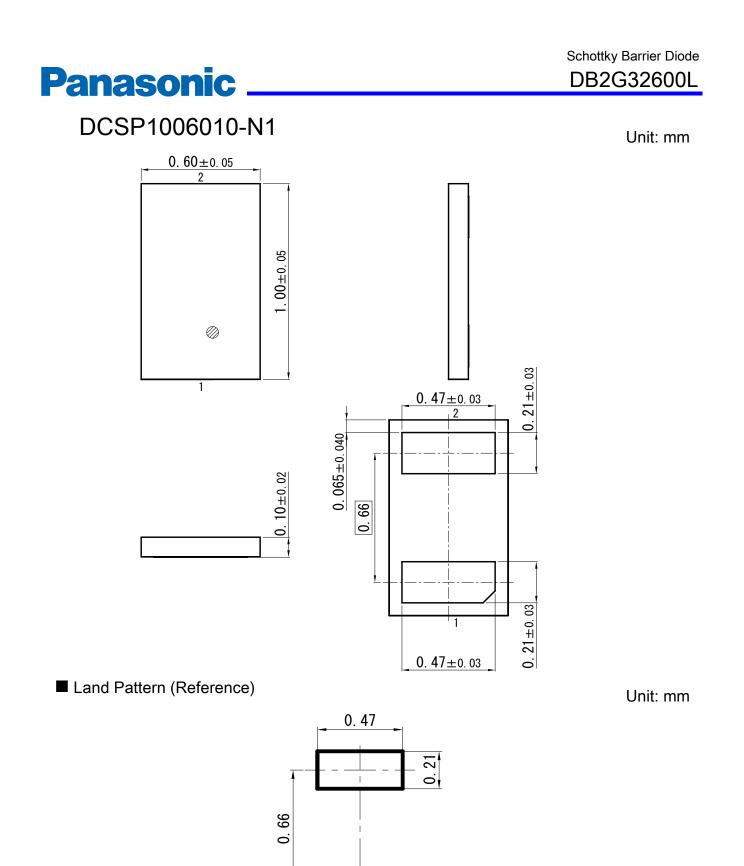
# Panasonic

Schottky Barrier Diode DB2G32600L

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## Power Derating Technical Data (Reference)



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