Panasonic DB2G60800L

Schottky Barrier Diode DB2G60800L

For rectification

Features

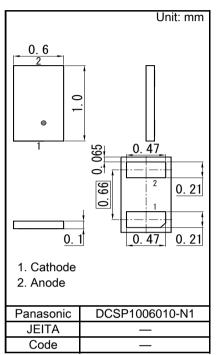
- Low forward voltage VF
- Forward current (Average) IF(AV) ≦ 1.0 A rectification is possible
- RoHS compliant
- (EU RoHS / MSL:Level 1 compliant)
- Marking Symbol: D7

Packaging

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

Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Reverse Voltage *1	VR	-	60	V
Maximum Peak Reverse Voltage *1	VRM	-	60	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	-	10	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: Square wave : σ = 0.5

*3: Ta ≤ 85°C, when device mounted on a FR4 PCB (25.4mm×25.4mm, 1mm thick), (620.0mm² area, 36µm thick).

*4: Solder Point Temperature : Tsp ≦ 135°C

*5: Square wave : Tp = 5 ms

*6: Power derating is necessary so that Tj < 150° C.

(Waveform definition) $\label{eq:def-Duty-Cycle} \text{Duty Cycle}: \sigma = \frac{\text{Tp}}{\text{T}}$

 $= \frac{Tp}{T} \xrightarrow{IF} Tp}{T}$

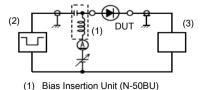
■ Electrical Characteristics Ta = 25 °C ± 3 °C

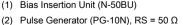
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward Voltage	VF	IF = 1.0 A	-	0.6	0.68	V
Reverse Current	IR	VR = 60 V	-	3	40	μA
Terminal Capacitance	Ct	VR = 10 V, f = 1 MHz	-	20	-	pF
Reverse Recovery Time ^{*1}	trr	IF = IR = 100 mA, Irr = 10 mA	-	6.6	-	ns

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.).

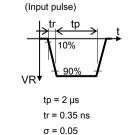
Due attention must be paid on the charge of a human body and the leakage of current from the operating equipment. 3. *1: Measurement circuit, input pulse, output pulse for Reverse recovery time

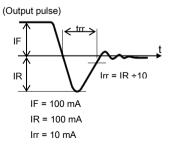
(Measurement circuit)





(3) Wave Form Analyzer (SAS-8130), Ri = 50 Ω

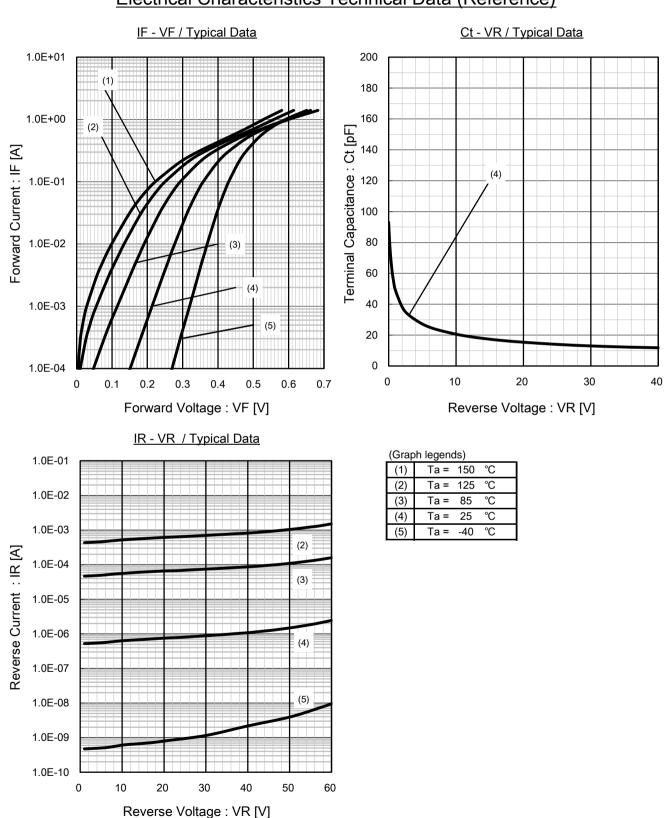






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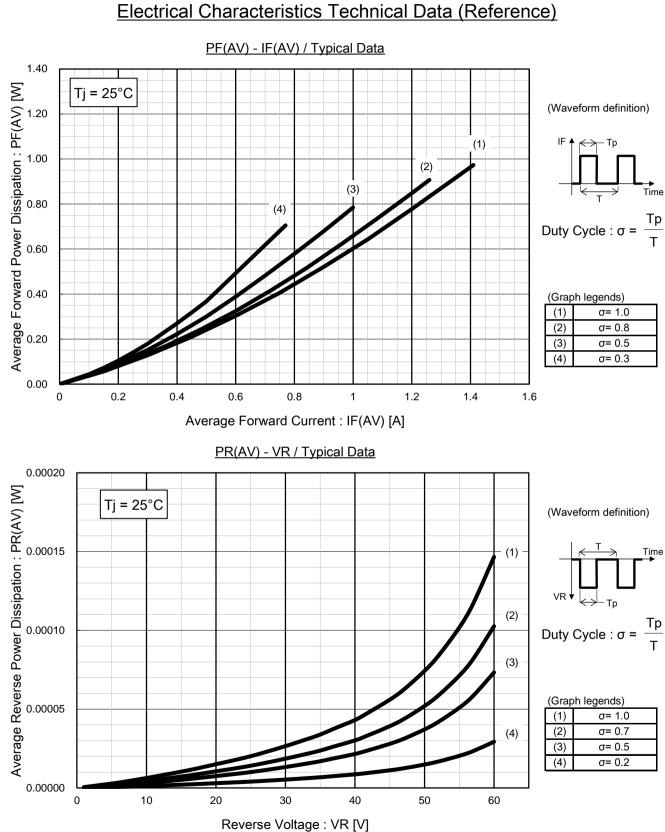
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Electrical Characteristics Technical Data (Reference)

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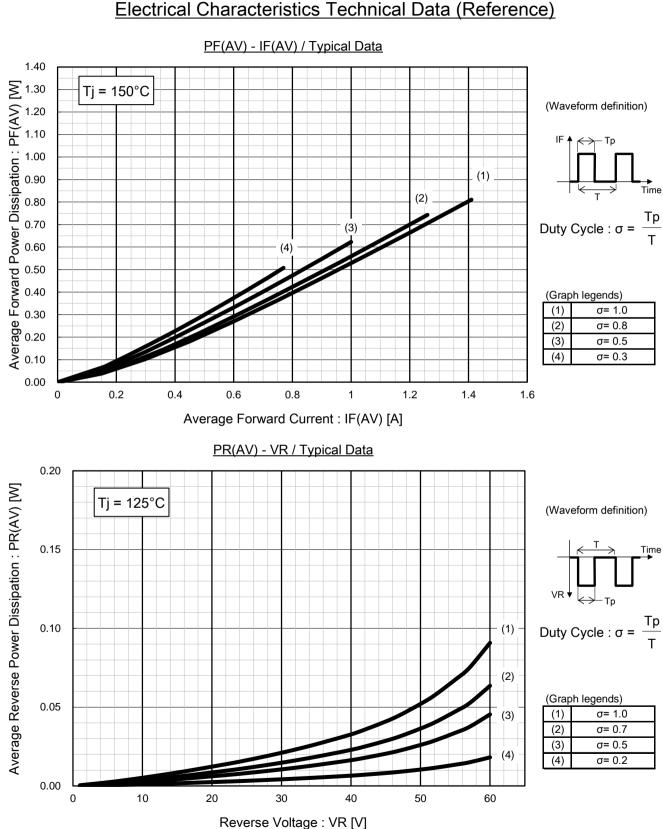
Electrical Characteristics Technical Data (Reference)

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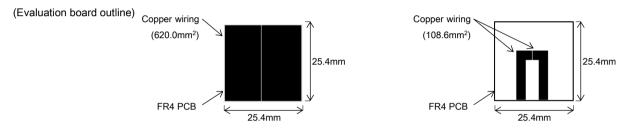
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Thermal Characteristics

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 ^{*1}	R _{th(j-a)}	Ta = 25°C, in free air	I	92	-	°C/W
Thermal Resistance, Junction to Ambient ^{*2}	R _{th(j-a)}	Ta = 25°C, in free air	-	170	-	°C/W

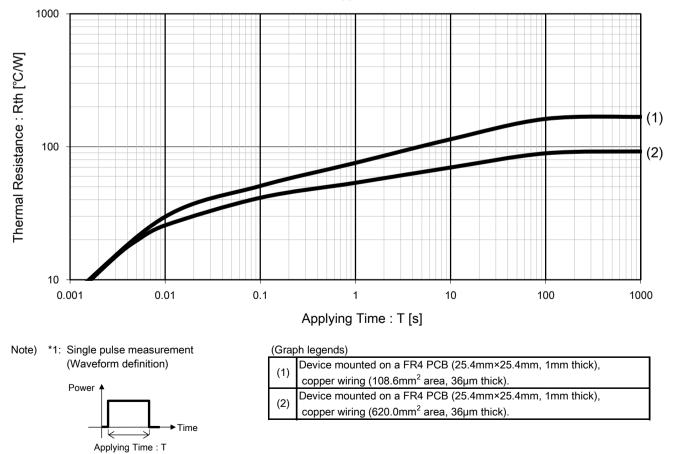
Note) *1: Device mounted on a FR4 PCB (25.4mm×25.4mm, 1mm thick), copper wiring (620.0mm² area, 36µm thick).

*2: Device mounted on a FR4 PCB (25.4mm×25.4mm, 1mm thick), copper wiring (108.6mm² area, 36µm thick).



Thermal Characteristics Technical Data (Reference)

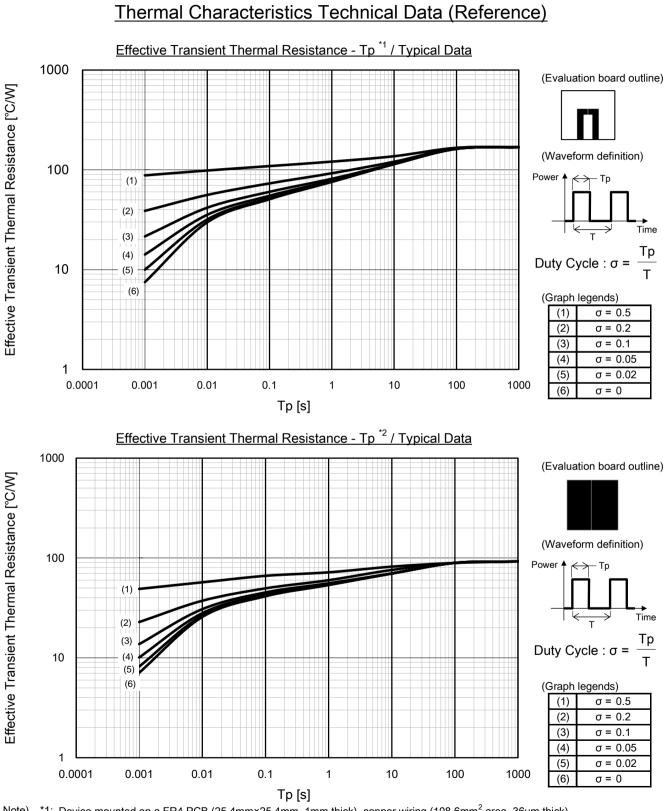
Rth - T *1 / Typical Data



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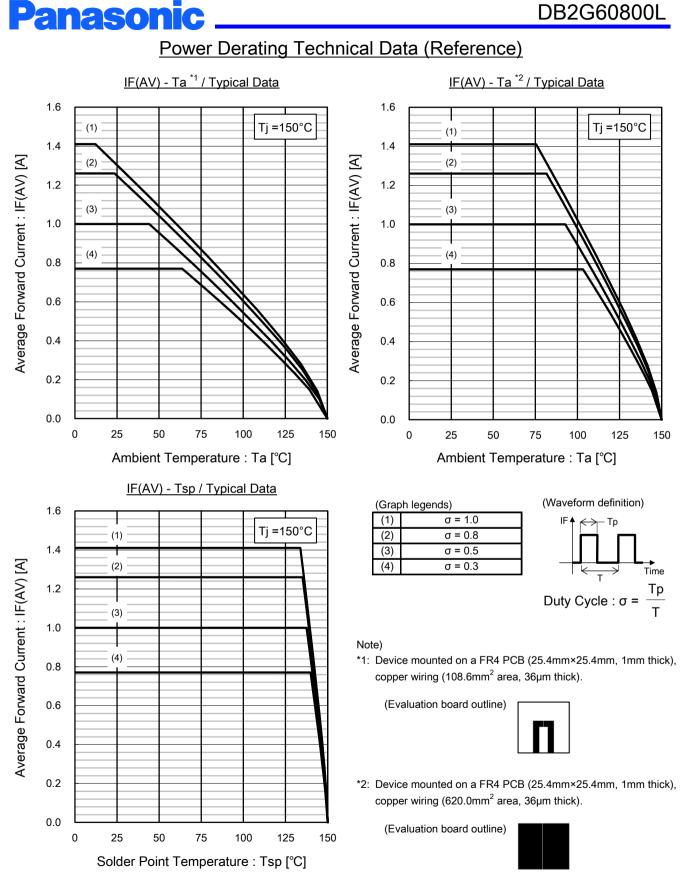
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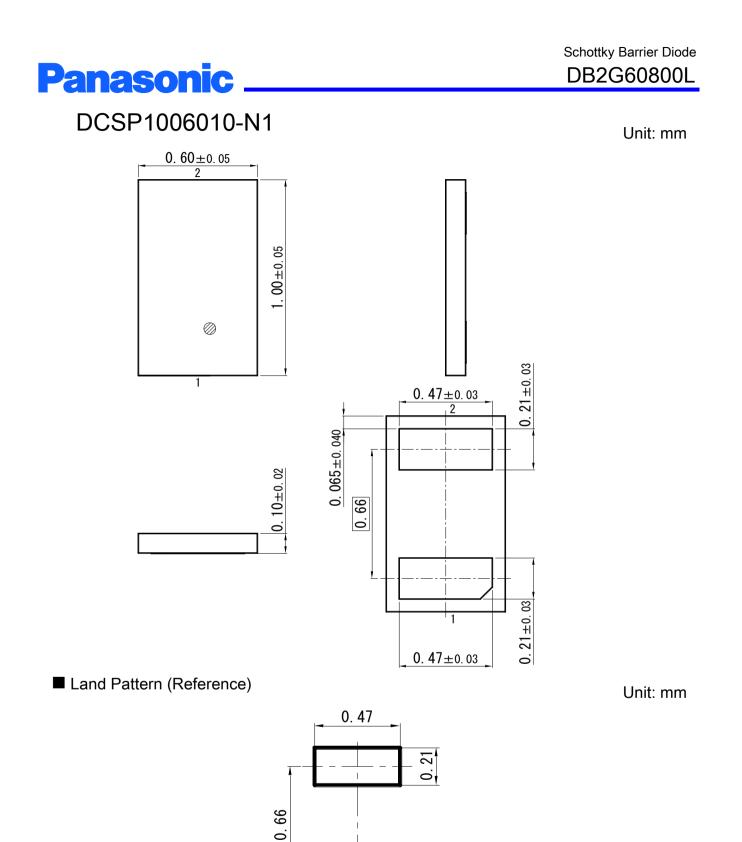
Note) *1: Device mounted on a FR4 PCB (25.4mm×25.4mm, 1mm thick), copper wiring (108.6mm² area, 36µm thick).
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