

# Glass Passivated Bridge Rectifiers

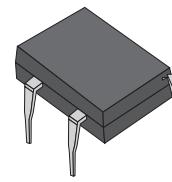
**Comchip**  
SMD Diode Specialist

## DB101-G Thru. DB107-G

**Reverse Voltage: 50 to 1000V**

**Forward Current: 1.0A**

**RoHS Device**

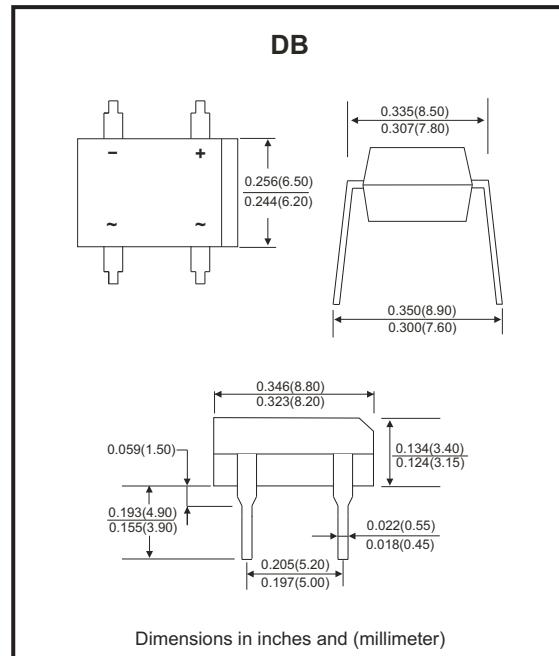


### Features

- Rating to 1000V PRV.
- Ideal for printed circuit board.
- Low forward voltage drop.
- High current capability.
- The plastic material has UL flammability classification 94V-0
- UL recognized file # E349301

### Mechanical Data

- Polarity: As marked on Body.
- Weight: 0.38 grams.
- Mounting position: Any.



### Maximum ratings and electrical characteristics

Rating at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

Parameter	Symbol	DB 101-G	DB 102-G	DB 103-G	DB 104-G	DB 105-G	DB 106-G	DB 107-G	Unit
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @T <sub>A</sub> =40°C	I <sub>(AV)</sub>								A
Peak Forward Surge Current , 8.3ms Single Half Sine-Wave Super Imposed On Rated Load (JEDEC Method)	I <sub>FSM</sub>								A
I <sup>2</sup> t Rating For Fusing (t<8.3ms)	I <sup>2</sup> t								A <sup>2</sup> s
Maximum Forward Voltage At 1.0A DC	V <sub>F</sub>								V
Maximum DC Reverse Current @T <sub>J</sub> =25°C At Rated DC Blocking Voltage @T <sub>J</sub> =125°C	I <sub>R</sub>								μA
Typical Junction Capacitance (Note 1)	C <sub>J</sub>								pF
Typical Thermal Resistance (Note 2)	R <sub>θJA</sub>								°C/W
Operating Temperature Range	T <sub>J</sub>								°C
Storage Temperature Range	T <sub>STG</sub>								°C

Notes:

1. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2. Thermal resistance from junction to ambient mounted on P.C.B with 0.5"×0.5" (13×13mm) copper pads.

Company reserves the right to improve product design , functions and reliability without notice.

REV: C

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## Rating and Characteristics Curves (DB101-G Thru. DB107-G)

Fig.1 - Forward Current Derating Curve

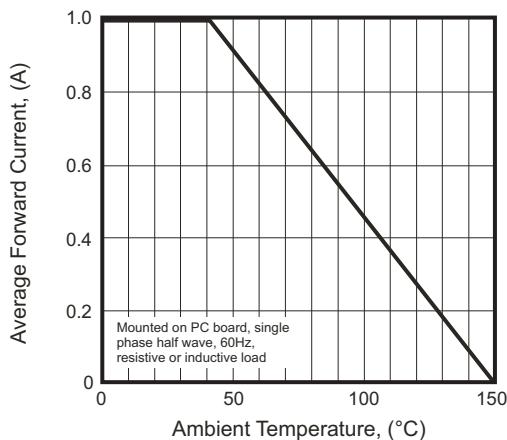


Fig.2 - Typical Forward Characteristics

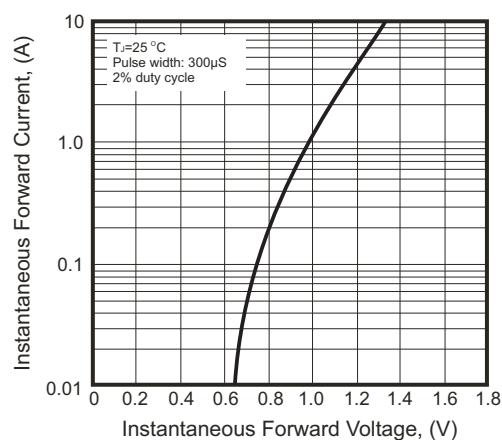


Fig.3 - Maximum Non-repetitive Surge Current

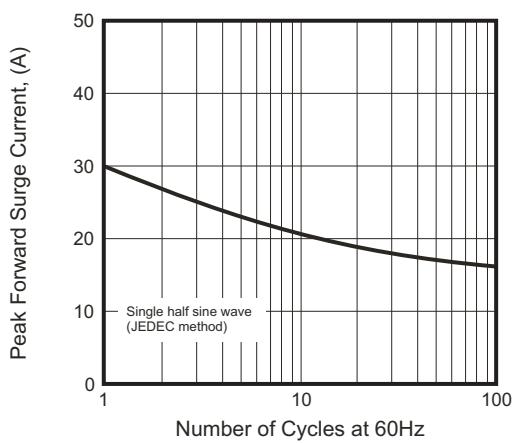


Fig.4 - Typical Junction Capacitance

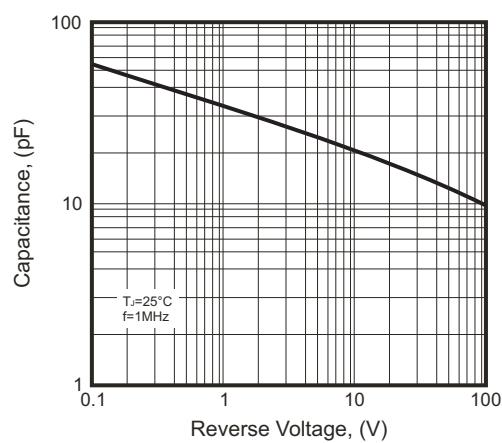
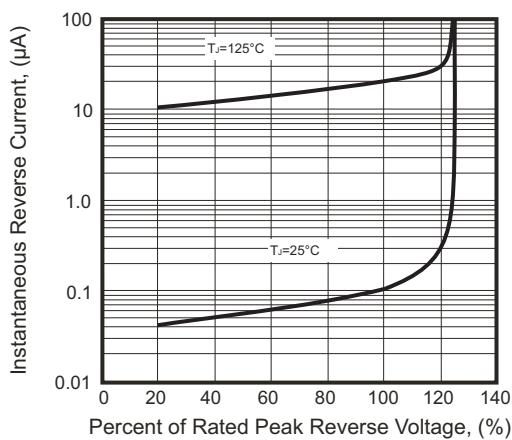


Fig.5 - Typical Reverse Characteristics

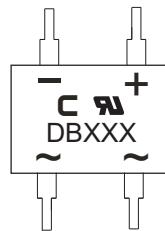


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## Marking Code

Part Number	Marking code
DB101-G	DB101
DB102-G	DB102
DB103-G	DB103
DB104-G	DB104
DB105-G	DB105
DB106-G	DB106
DB107-G	DB107



XXX = Product type marking code  
C = Comchip Logo

## Standard Packaging

Case Type	TUBE PACK	
	TUBE ( pcs )	BOX ( pcs )
DB	50	2,500