# VI. Bridge Rectifier

## 1.0A Glass Passivated Bridge Rectifier DB101G~DB107G

### (Package: DB)

### **FEATURES**

- Rating to 1000V PRV
- Ideal for printed circuit board
- Low forward voltage drop, high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The plastic material has Underwriters Laboratory Flammability Classification 94V-0

#### MECHANICAL DATA

- Polarity : As marked on body
- Mounting position : Any
- Weight : 0.02 ounces, 0.38 grams

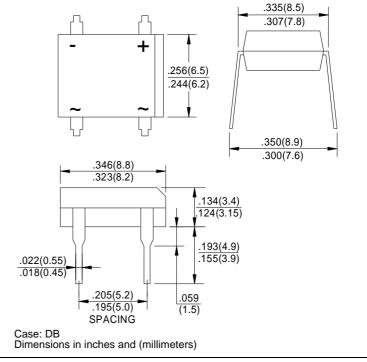
### **Ratings & Electrical Characteristics**

Ratings at 25 ambient temperature unless otherwise specified. Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%

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Characteristic	Symbol	DB 101G	DB 102G	DB 103G	DB 104G	DB 105G	DB 106G	DB 107G	Units
Maximum recurrent peak reverse voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current @ Ta = 40	lo	1.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I <sub>FSM</sub>	30							Amps
Maximum forward voltage at 1.0A DC	V <sub>F</sub>	1.1							Volts
Maximum DC reverse current @ Tj=25 at rated DC blocking voltage @ Tj=125	I <sub>R</sub>	10 500							μΑ
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l <sup>2</sup> t	10.4						A <sup>2</sup> s	
Typical junction capacitance per element (Note 1)	Cj	25						PF	
Typical thermal resistance (Note 2)	Rth-JA	40						/ W	
Operating temperature range	Тј	-55 to +150							
Storage temperature range	Tstg	-55 to +150							

Note:

2. Thermal resistance from junction to ambient mounted on P.C.B with 0.5\*0.5" (13\*13mm) copper pads



<sup>1.</sup> Measured at 1.0MHz and applied reverse voltage of 4.0V DC

## **Ratings and Characteristic Curves of DB101G~DB107G**

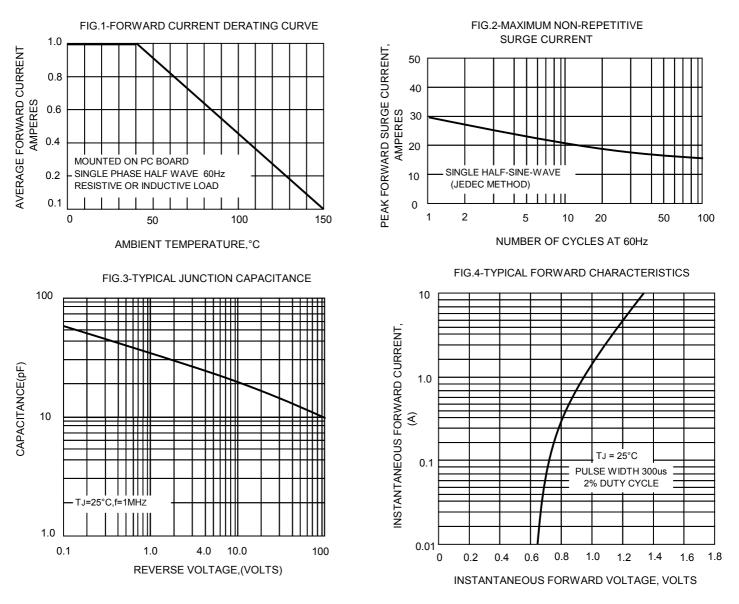


FIG.5-TYPICAL REVERSE CHARACTERISTICS

