

# DB101GS THRU DB107GS

## SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

### FEATURES:

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability
- Small size, simple installation

### MECHANICAL DATA

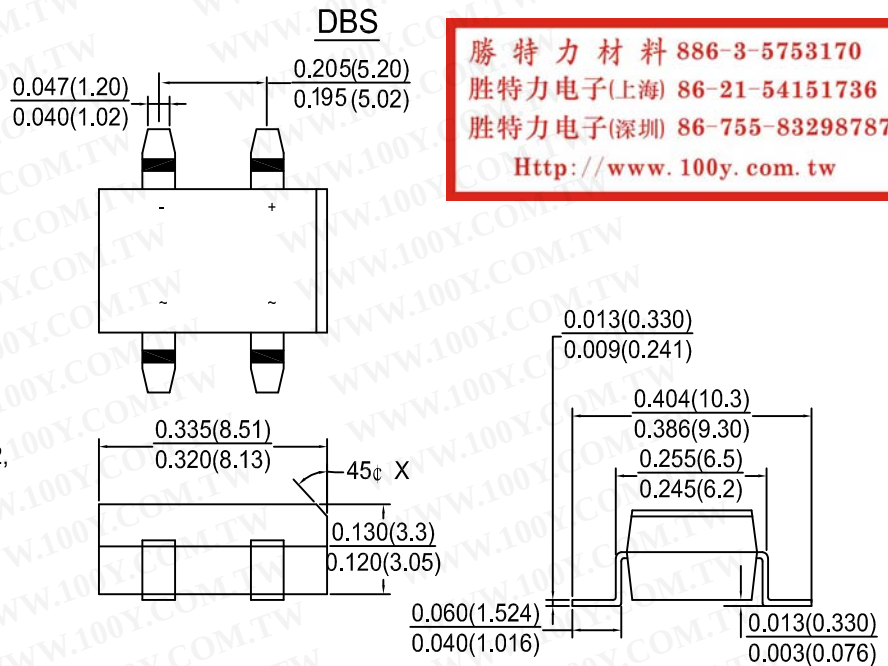
Case : Molded plastic

Terminals : Plated terminals, solderable per MIL-STD-202, Method 208

Polarity : Polarity symbols marked on body

Mounting Position : Any

Handling Precaution : None



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### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temp. temperatur unless otherwise specified.

Single phase, half sine, wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20 %.

| Characteristic                                                                                   | Symbol                            | DB 101GS     | DB 102GS | DB 103GS | DB 104GS | DB 105GS | DB 106GS | DB 107GS | Units |
|--------------------------------------------------------------------------------------------------|-----------------------------------|--------------|----------|----------|----------|----------|----------|----------|-------|
|                                                                                                  | Marking                           | DB 101G      | DB 102G  | DB 103G  | DB 104G  | DB 105G  | DB 106G  | DB 107G  |       |
| 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 at Ta=40° C                                            | I <sub>O</sub>                    | 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 instantaneous forward voltage drop at 1.0 A                                              | V <sub>F</sub>                    | 1.1          |          |          |          |          |          |          | Volts |
| Maximum DC reverse current at rated DC blocking voltage Ta=25° C Ta=125° C                       | I <sub>R</sub>                    | 5.0<br>500.0 |          |          |          |          |          |          | μ A   |
| Typical junction capacitance                                                                     | C <sub>j</sub>                    | 25           |          |          |          |          |          |          | pF    |
| Typical thermal resistance                                                                       | R <sub>th-JA</sub>                | 20.0         |          |          |          |          |          |          | ° C/W |
| Operating junction and storage temperature range                                                 | T <sub>j</sub> , T <sub>stg</sub> | -65 to +150  |          |          |          |          |          |          | ° C   |

