

# DB151G THRU DB157G

## 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

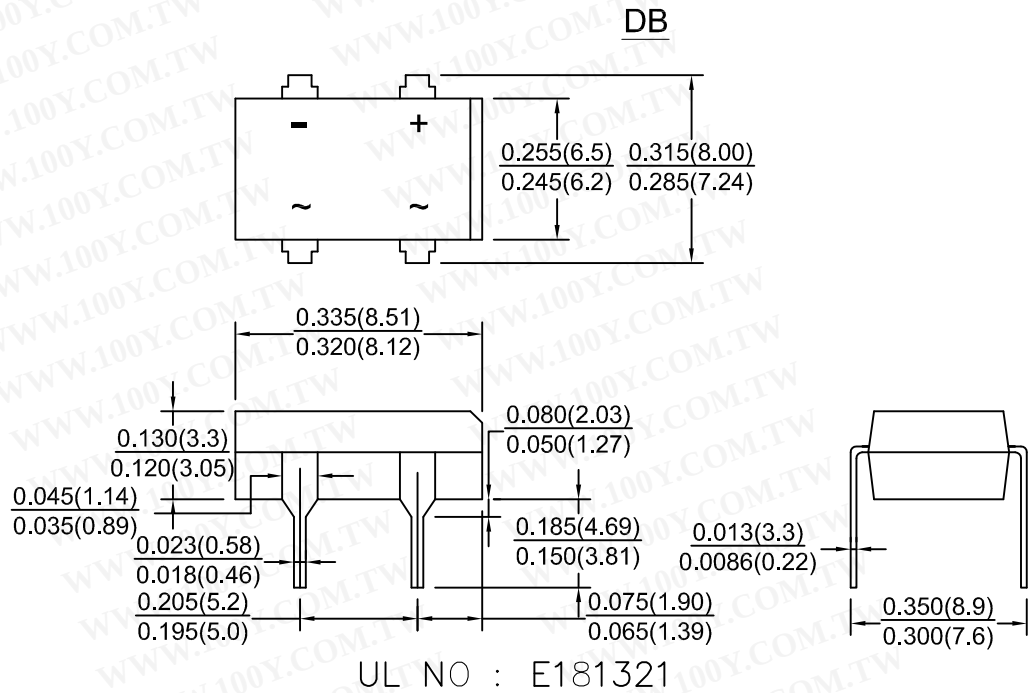
Case : Molded plastic

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

Polarity : Polarity symbols marked on body

Mounting Position : Any

Handling Precaution : None



Dimensions in inches and (millimeters)

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

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

For capacitive load, derate current by 20 %.

勝特力材料 886-3-5753170  
勝特力电子(上海) 86-21-54151736  
勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

| Characteristic                                                                                      | Symbol           | DB<br>151G   | DB<br>152G | DB<br>153G | DB<br>154G | DB<br>155G | DB<br>156G | DB<br>157G | UNITS              |
|-----------------------------------------------------------------------------------------------------|------------------|--------------|------------|------------|------------|------------|------------|------------|--------------------|
| Maximum recurrent peak reverse voltage                                                              | VRRM             | 50           | 100        | 200        | 400        | 600        | 800        | 1000       | Volts              |
| Maximum RMS voltage                                                                                 | VRMS             | 35           | 70         | 140        | 280        | 420        | 560        | 700        | Volts              |
| Maximum DC blocking voltage                                                                         | VDC              | 50           | 100        | 200        | 400        | 600        | 400        | 1000       | Volts              |
| Maximum average forward rectified current<br>at Ta=40° C                                            | Io               | 1.50         |            |            |            |            |            |            | Amps               |
| Peak forward surge current ,8.3ms single half sine-wave<br>superimposed on rated load(JEDEC Method) | IFSM             | 50.0         |            |            |            |            |            |            | Amps               |
| Rating for fusing(t<8.3ms)                                                                          | I <sup>2</sup> t | 10.0         |            |            |            |            |            |            | A <sup>2</sup> sec |
| Maximum instantaneous forward voltage drop at 1.5 A                                                 | VF               | 1.1          |            |            |            |            |            |            | Volts              |
| Maximum DC reverse current<br>at rated DC blocking voltage<br>Ta=25° C<br>Ta=125° C                 | IR               | 5.0<br>500.0 |            |            |            |            |            |            | μ A                |
| Typical junction capacitance                                                                        | Cj               | 14.0         |            |            |            |            |            |            | pF                 |
| Typical thermal resistance                                                                          | Rth-JA           | 36.0         |            |            |            |            |            |            | ° C/W              |
| Operating junction and storage temperature range                                                    | Tj, Tstg         | -65 to +150  |            |            |            |            |            |            | ° C                |

# RATINGS AND CHARACTERISTIC CURVES DB151G THRU DB157G

