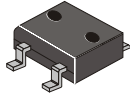




# DB101S THRU DB107S

SINGLE PHASE 1.0 AMP SURFACE MOUNT BRIDGE RECTIFIERS



## FEATURES

- \* Ideal for printed circuit board
- \* Reliable low cost construction utilizing molded plastic technique
- \* High surge current capability
- \* Polarity: marked on body
- \* Mounting position: Any
- \* Weight: 1.0 grams

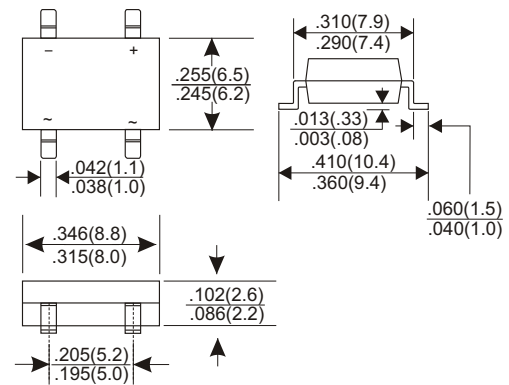
## VOLTAGE RANGE

50 to 1000 Volts

## CURRENT

1.0 Ampere

DB-1S



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

| TYPE NUMBER                                                                                        | DB101S     | DB102S | DB103S | DB104S | DB105S | DB106S | DB107S | UNITS |
|----------------------------------------------------------------------------------------------------|------------|--------|--------|--------|--------|--------|--------|-------|
| Maximum Recurrent Peak Reverse Voltage                                                             | 50         | 100    | 200    | 400    | 600    | 800    | 1000   | V     |
| Maximum RMS Voltage                                                                                | 35         | 70     | 140    | 280    | 420    | 560    | 700    | V     |
| Maximum DC Blocking Voltage                                                                        | 50         | 100    | 200    | 400    | 600    | 800    | 1000   | V     |
| Maximum Average Forward Rectified Current                                                          |            |        |        |        |        |        |        |       |
| .375"(9.5mm) Lead Length at Ta=100°C                                                               | 1.0        |        |        |        |        |        |        | A     |
| Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) | 50         |        |        |        |        |        |        | A     |
| Maximum Forward Voltage Drop per Bridge Element at 1.0A D.C.                                       | 1.1        |        |        |        |        |        |        | V     |
| Maximum DC Reverse Current Ta=25°C                                                                 | 5          |        |        |        |        |        |        | µA    |
| at Rated DC Blocking Voltage Ta=125°C                                                              | 500        |        |        |        |        |        |        | µA    |
| Operating Temperature Range, Tj                                                                    | -65 — +125 |        |        |        |        |        |        | °C    |
| Storage Temperature Range, Tstg                                                                    | -65 — +150 |        |        |        |        |        |        | °C    |

## RATING AND CHARACTERISTIC CURVES (DB101S THRU DB107S)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

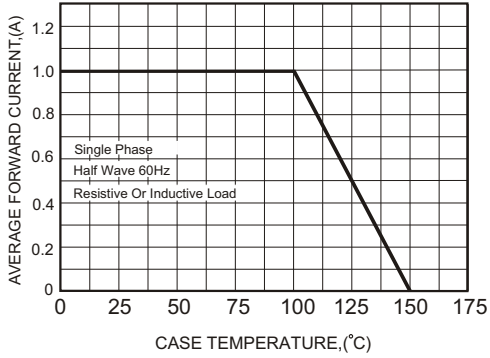


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

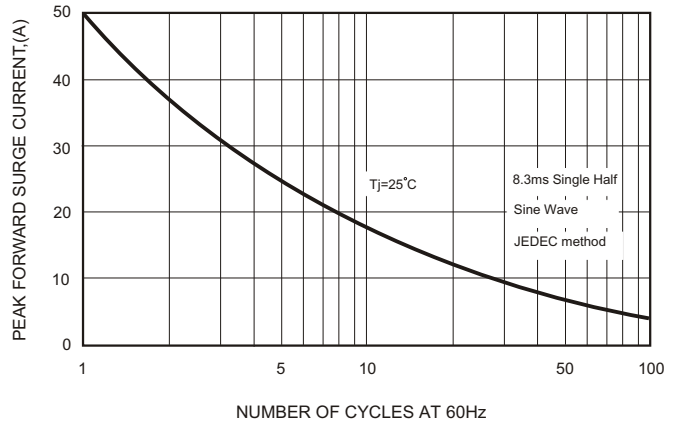


FIG.3-TYPICAL FORWARD CHARACTERISTICS

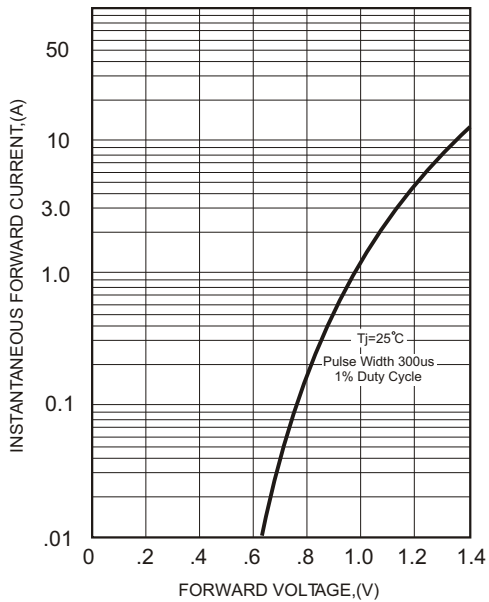
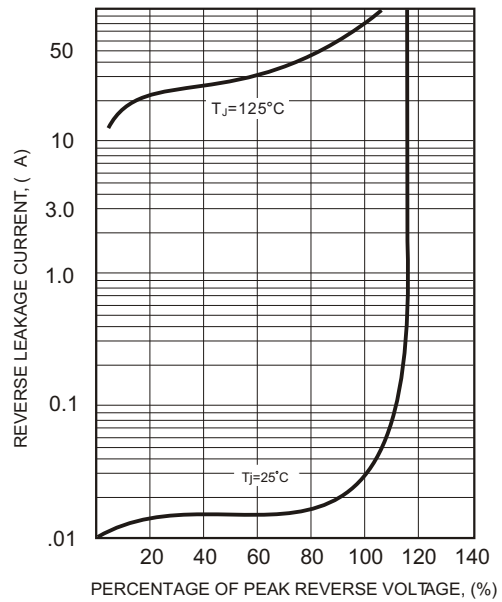


FIG.4-TYPICAL REVERSE CHARACTERISTICS



Attention:

The graph is for reference only, can't be the basis for judgment.

Any and all information described or contained herein are subject to change without notice due to product/technology improvement.