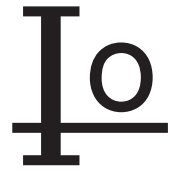
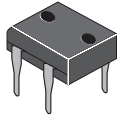


# DB101 THRU DB107



SINGLE PHASE 1.0 AMP 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

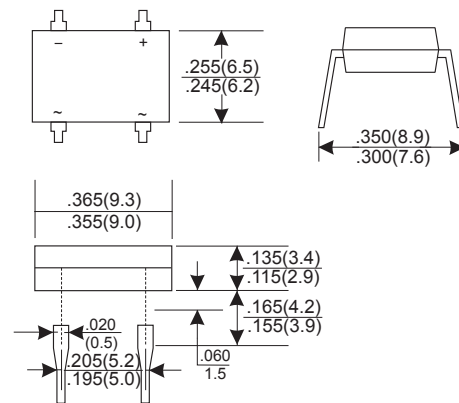
## VOLTAGE RANGE

50 to 1000 Volts

## CURRENT

1.0 Ampere

### DB-1



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   | DB101      | DB102 | DB103 | DB104 | DB105 | DB106 | DB107 | 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<br>.375"(9.5mm) Lead Length at Ta=40°C                      | 1.0        |       |       |       |       |       |       | A     |
| Peak Forward Surge Current, 8.3 ms single half sine-wave<br>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<br>Ta=25°C   | 10         |       |       |       |       |       |       | μA    |
| at Rated DC Blocking Voltage<br>Ta=125°C  | 500        |       |       |       |       |       |       | μA    |
| Operating Temperature Range, Tj   | -65 — +125 |       |       |       |       |       |       | °C    |
| Storage Temperature Range, Tstg   | -65 — +150 |       |       |       |       |       |       | °C    |

## RATING AND CHARACTERISTIC CURVES (DB101 THRU DB107)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

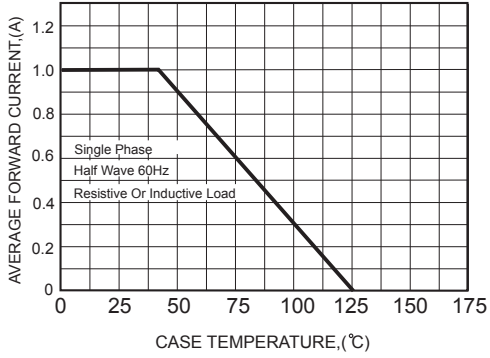


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

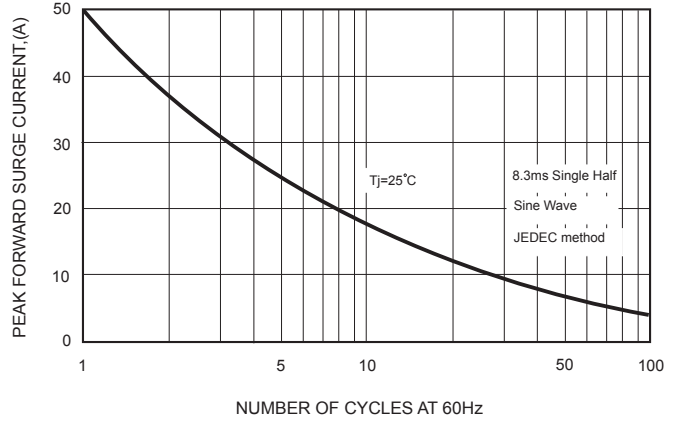


FIG.3-TYPICAL FORWARD CHARACTERISTICS

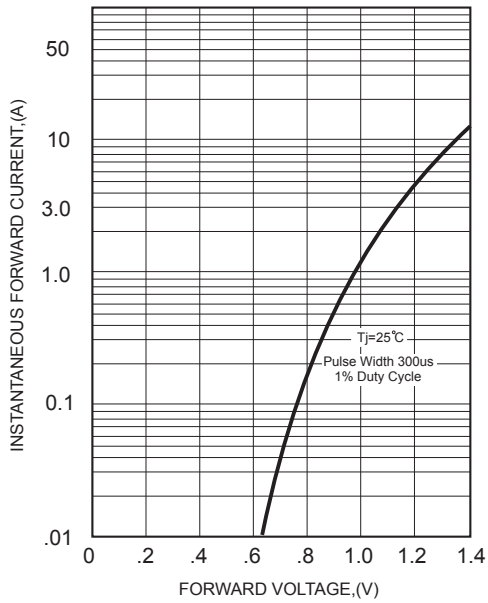


FIG.4-TYPICAL REVERSE CHARACTERISTICS

