

# DB101S THRU DB107S

## GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

**VOLTAGE** 50 to 1000 Volts **CURRENT** 1.0 Amperes

### FEATURES

- Plastic material used carries Underwriters Laboratory recognition 94V-O
- Low leakage
- Surge overload rating-- 30 amperes peak
- Ideal for printed circuit board

Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

Case: Reliable low cost construction utilizing molded plastic technique results in inexpensive product

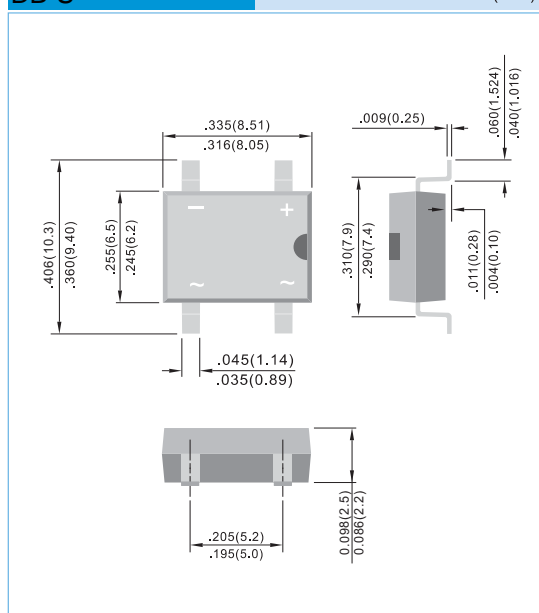
Terminals: Lead solderable per MIL-STD-750, Method 2026

Polarity: Polarity symbols molded or marking on body

Mounting Position: Any

Weight: 0.02 ounce, 0.4 gram

DB-S Unit : inch (mm)



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Maximum Ratings & Electrical Characteristics Ratings at 25°C ambient temperature unless otherwise specified

|   | SYMBOLS | DB 101S      | DB 102S | DB 103S | DB 104S | DB 105S | DB 106S | DB 107S | UNITS |
|---|---------|--------------|---------|---------|---------|---------|---------|---------|-------|
| 最大可重复峰值反向电压<br>Maximum repetitive peak reverse voltage                          | VRRM    | 50           | 100     | 200     | 400     | 600     | 800     | 1000    | Volts |
| 最大均方根电压<br>Maximum RMS voltage  | VRMS    | 35           | 70      | 140     | 280     | 420     | 560     | 700     | Volts |
| 最大直流阻断电压<br>Maximum DC blocking voltage   | VDC     | 50           | 100     | 200     | 400     | 600     | 800     | 1000    | Volts |
| 最大正向平均整流电流<br>Maximum average forward output rectified                          | I(AV)   | 1.0          |         |         |         |         |         |         | Amps  |
| 正向峰值浪涌电流 8.3ms 单一正弦半波<br>Peak forward surge current 8.3ms single half sine-wave | IFSM    | 30           |         |         |         |         |         |         | Amps  |
| 最大正向电压降<br>Maximum forward voltage  | VF      | 1.05         |         |         |         |         |         |         | Volts |
| 最大反向漏电流<br>Maximum reverse voltage  | IR      | 5.0<br>100   |         |         |         |         |         |         | μ A   |
| 典型结电容<br>Type junction capacitance VR=4.0V f=1.0MHz                             | CJ      | 25           |         |         |         |         |         |         | pF    |
| 工作温度和存储温度<br>Operating junction and storage temperature range                   | TJ.TSTG | -55 to + 150 |         |         |         |         |         |         | °C    |

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## RATING AND CHARACTERISTIC CURVES

FIG.1 FORWARD CURRENT DERATING CURVE

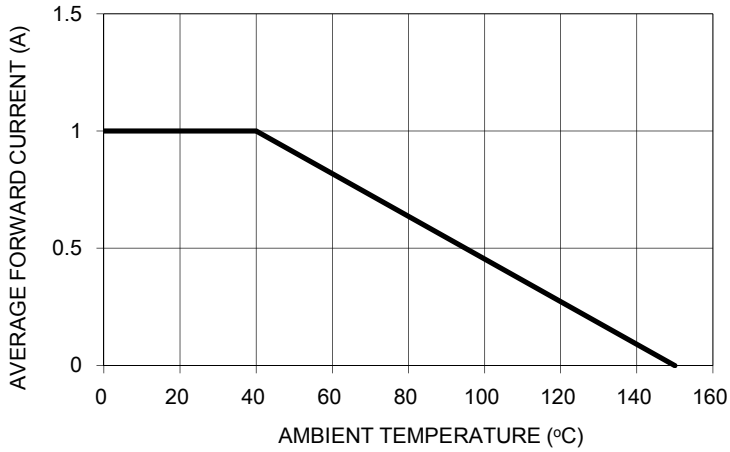


FIG. 3 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

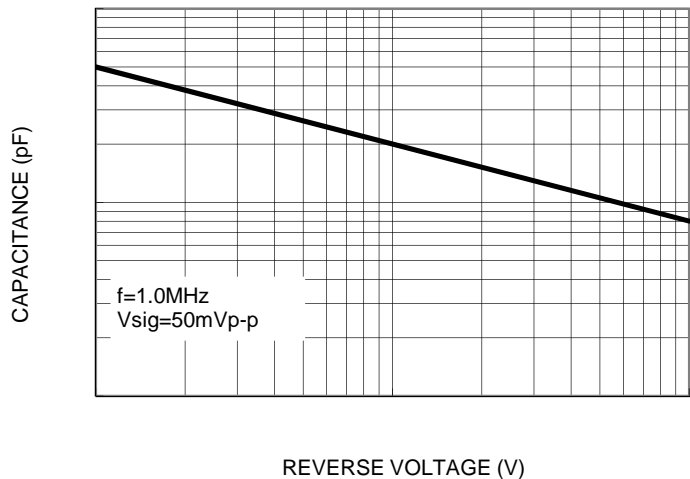
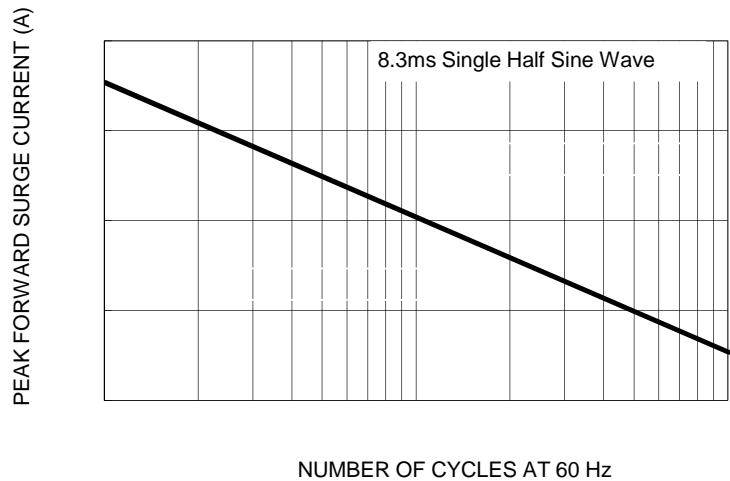


FIG. 2 TYPICAL REVERSE CHARACTERISTICS

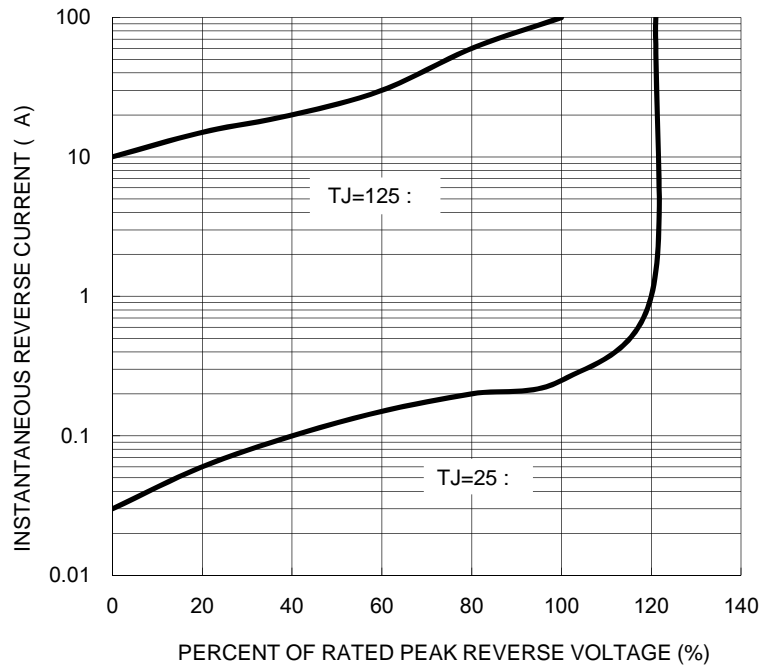


FIG. 4 TYPICAL FORWARD CHARACTERISTICS

