

DB101S THRU DB107S

Single Phase 1.0 AMPS. Glass Passivated Bridge Rectifiers

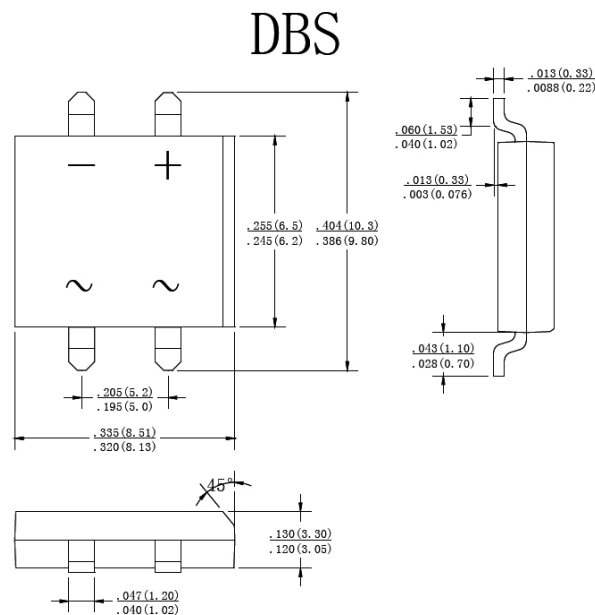
Voltage Range 50 to 1000 Volts Current 1.0 Amperes

FEATURES

- ◆ Ideal for printed circuit board
- ◆ Reliable low cost construction technique results in inexpensive product
- ◆ High temperature soldering guaranteed:
260°C / 10 seconds / 0.375" (9.5mm)
lead length at 5 lbs., (2.3 kg) tension
- ◆ UL Recognized File number: E347215

MECHANICAL DATA

- ◆ Case: Molded plastic
- ◆ Lead: solder plated
- ◆ Polarity: As marked



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 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 | | DB | DB | DB | DB | DB | DB | DB | UNITS |
|--|-------------------|-------------|------|------|------|------|------|------|-------|
| | | 101S | 102S | 103S | 104S | 105S | 106S | 107S | |
| Maximum Repetitive Peak Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current at T _A =40°C | I _(AV) | 1.0 | | | | | | | A |
| Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | I _{FSM} | 50 | | | | | | | A |
| Maximum Instantaneous Forward Voltage at 1.0A | V _F | 1.1 | | | | | | | V |
| Maximum DC Reverse Current @ T _A =25°C rated DC blocking voltage per leg T _A =125°C | I _R | 10 500 | | | | | | | μA |
| Typical Thermal Resistance (Note) | R _{θJA} | 40 | | | | | | | °C/W |
| | R _{θJL} | 15 | | | | | | | |
| Operating Temperature Range | T _J | -55 to +150 | | | | | | | °C |
| Storage Temperature Range | T _{STG} | -55 to +150 | | | | | | | °C |

Note: Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 0.47×0.47" (12×12mm) Copper Pads.

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RATING AND CHARACTERISTIC CURVES DB101S THRU DB107S

FIG.1-MAXIMUM NONO-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMNT

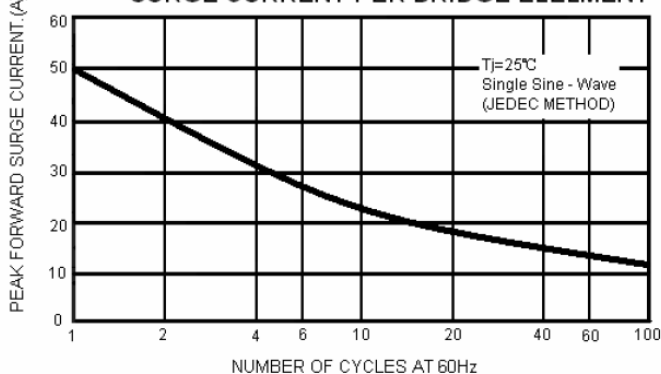


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

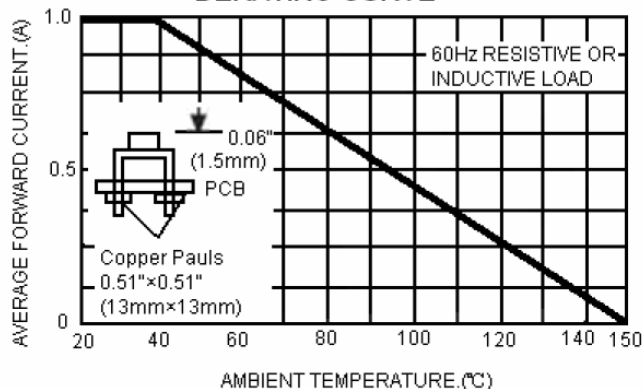


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

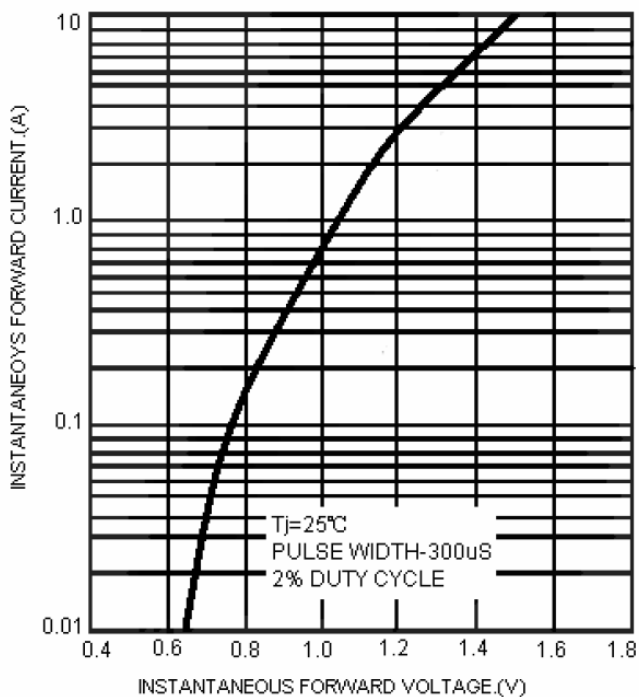
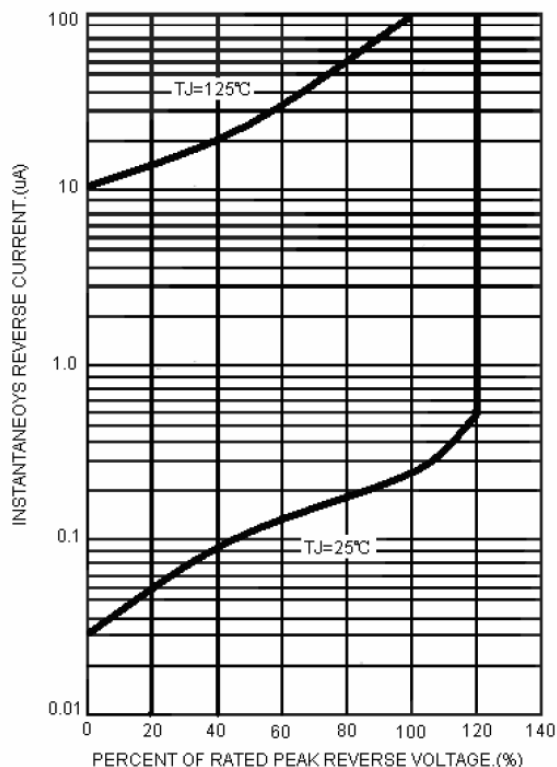


FIG.4-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



Note: Specification are subject to change without notice. For more detail and update, please visit our website.