



DB101(S) THRU DB107(S)

**SINGLE PHASE 1.0AMP.
GLASS PASSIVATED BRIDGE
RECTIFIERS**

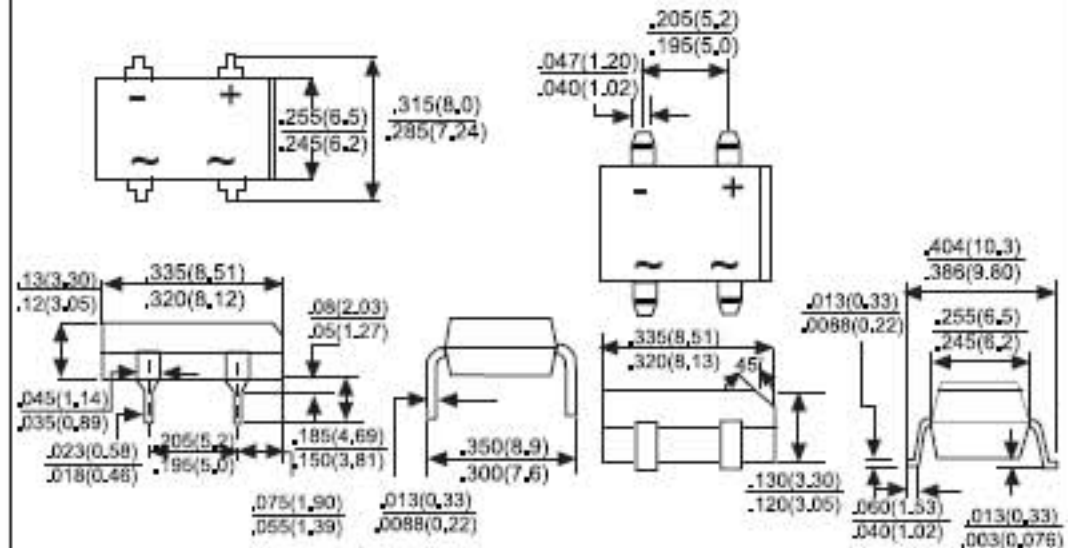
**Voltage Range
50 to 1000 Volts
Current
1.0Ampere**

FEATURES

- UL Recognized File # E-230084
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed:
- 250°C/10 seconds / 0.375"(9.5mm) lead length at 5 lbs.,(2.3kg)tension
- Small size, simple installation
- Leads solderable per MIL-STD-202, Method 208
- High surge current capability

DB

DBS



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 | | DB101 | DB102 | DB103 | DB104 | DB105 | DB106 | DB107 | UNITS |
|---|--------|-------------|---------|---------|---------|---------|---------|---------|----------|
| | | DB 101S | DB 102S | DB 103S | DB 104S | DB 105S | DB 106S | DB 107S | |
| Maximum Repetitive Peak Reverse Voltage | VRRM | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | VRMS | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | VDC | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current @TA = 40°C | IF(AV) | 1.0 | | | | | | | A |
| Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated load (JEDEC method) | IFSM | 50 | | | | | | | A |
| Maximum Instantaneous Forward Voltage Drop Per leg @ 1.0A | VF | 1.1 | | | | | | | V |
| Maximum DC Reverse Current @ TA = 25°C at Rated DC Blocking Voltage @ TA = 125°C | IR | 5 100 | | | | | | | uA uA |
| Operating Temperature Range | TJ | -55 to +150 | | | | | | | °C |
| Storage Temperature Range | TSTG | -55 to +150 | | | | | | | °C |

Note: DBS for Surface Mount Package.

RATING AND CHARACTERISTIC CURVES DB101(S) THRU DB107(S)



FIG.1 - MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

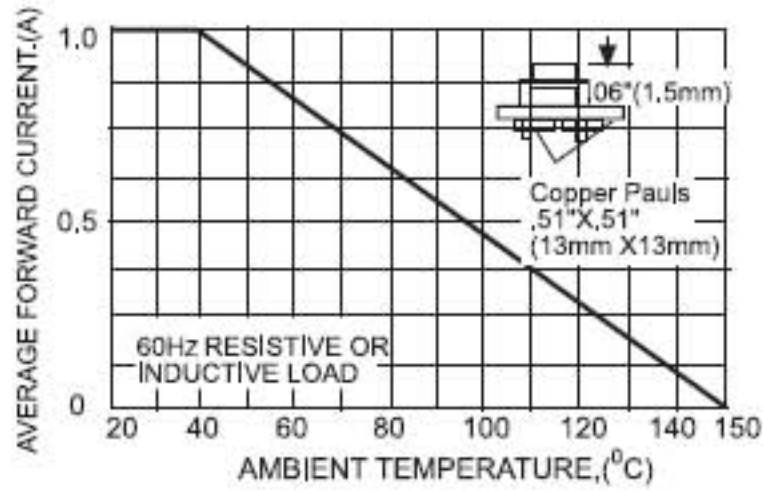


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

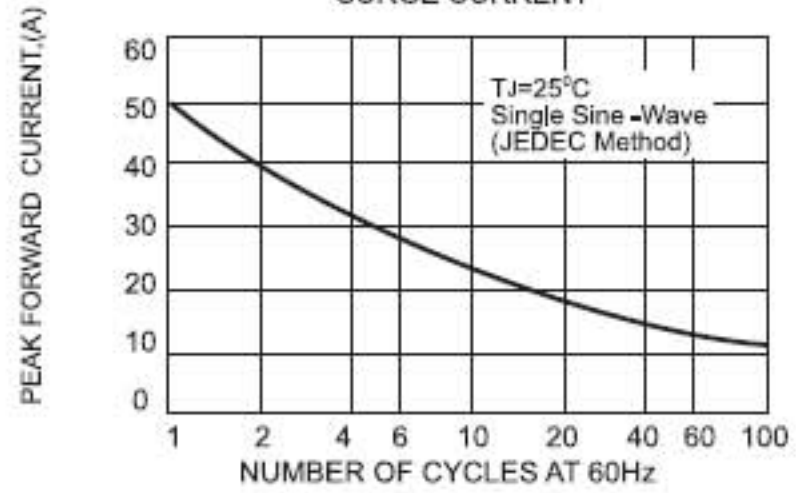


FIG.3-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

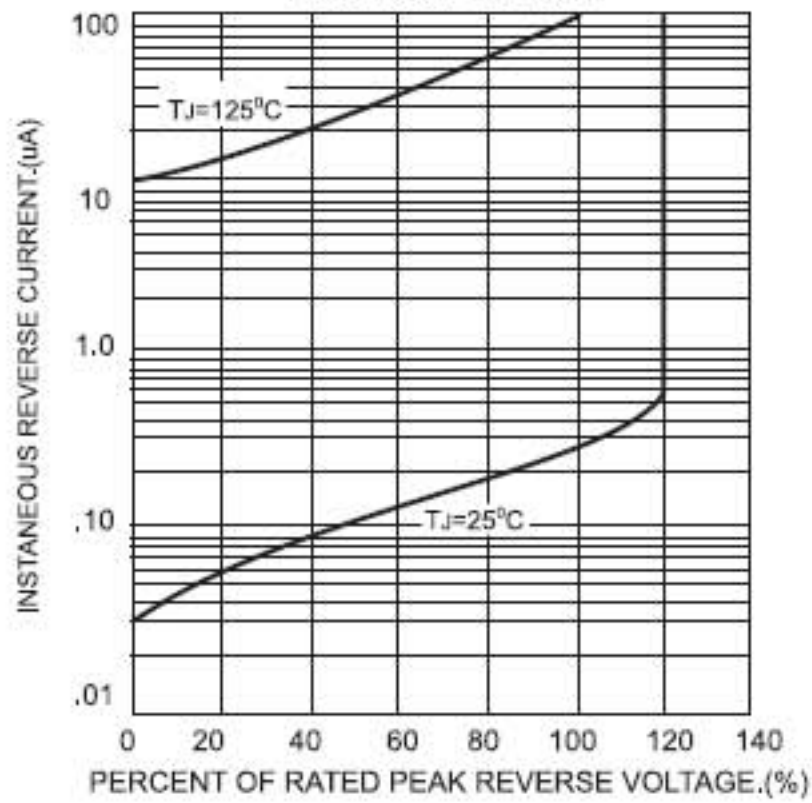


FIG.4-TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

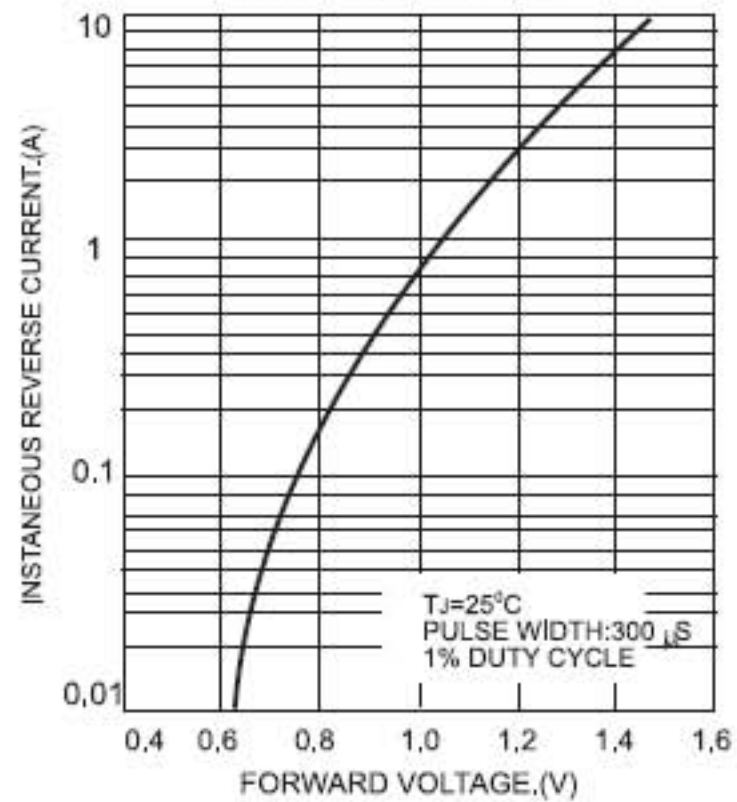


FIG.5-TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

