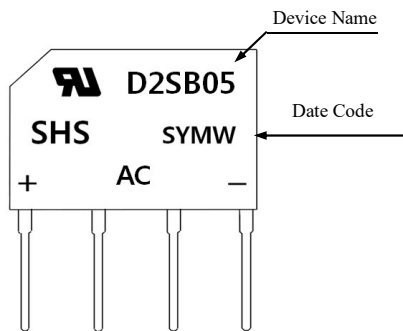


Glass Passivated Bridge Rectifiers
Reverse Voltage 50 to 1000 Volts Forward Current 1.5 Amperes

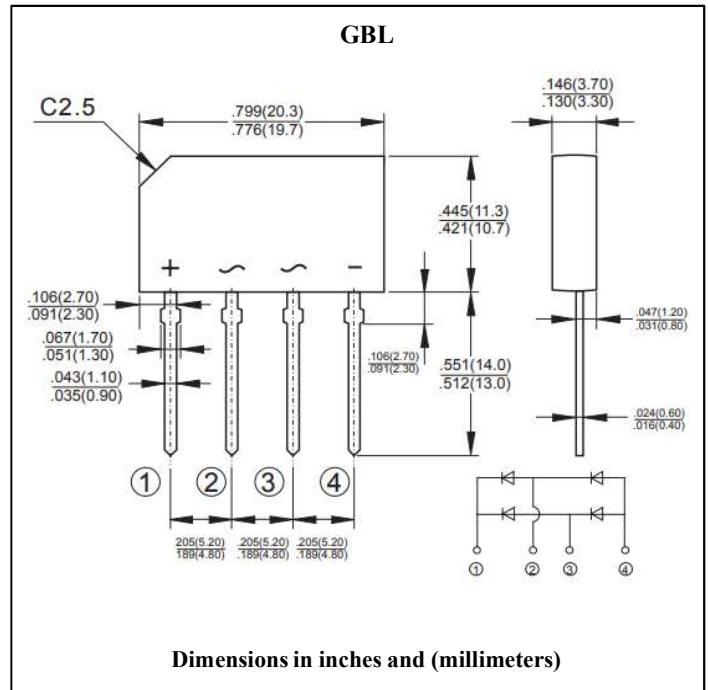
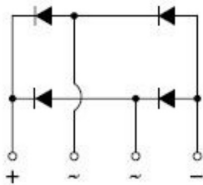
Features

- Glass passivated junction
- Superior thermal chip junctions
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- High current capacity with small package

Marking



Equivalent Circuit



Maximum Ratings & Electrical Characteristics

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

| Parameter | Symbol | D2S B05 | D2S B10 | D2S B20 | D2S B40 | D2S B60 | D2S B80 | D2S B100 | Unit | Remark |
|---|---------------|-------------|---------|---------|---------|---------|---------|----------|--------------|-------------------|
| 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 (60Hz Sine Wave, R-load) | I_O | 1.5 | | | | | | | A | $T_A=50^\circ C$ |
| Peak Forward Surge Current 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method) | I_{FSM} | 60 | | | | | | | A | |
| Maximum Instantaneous Forward Voltage @ 1.5A | V_F | 1.1 | | | | | | | V | |
| Maximum DC Reverse Current at Rated DC Blocking Voltage | I_R | 10.0 | | | | | | | uA | $T_a=25^\circ C$ |
| | | 1.0 | | | | | | | mA | $T_a=125^\circ C$ |
| Rating For Fusing ($t < 8.3ms$) | I^2t | 15 | | | | | | | A^2S | |
| Typical Thermal Resistance | $R_{th(j-c)}$ | 3.5 | | | | | | | $^\circ C/W$ | |
| | $R_{th(j-a)}$ | 40 | | | | | | | | |
| Operating Temperature Range | T_J | -55 to +150 | | | | | | | $^\circ C$ | |
| Storage Temperature Range | T_{STG} | -55 to +150 | | | | | | | $^\circ C$ | |

Note 1. Unit case mounted on 1.6*1.6*0.06"thick (5.1*5.1*0.15cm) Al plate
Note 2. Unit mounted on P.C.B. with 0.5*0.5"(1.27*1.27mm)copper pads and 0.375" (9.5mm) lead length

Ratings and Characteristics Curves (Ta=25°C unless otherwise noted)

Fig.1 Forward Current Derating Curve

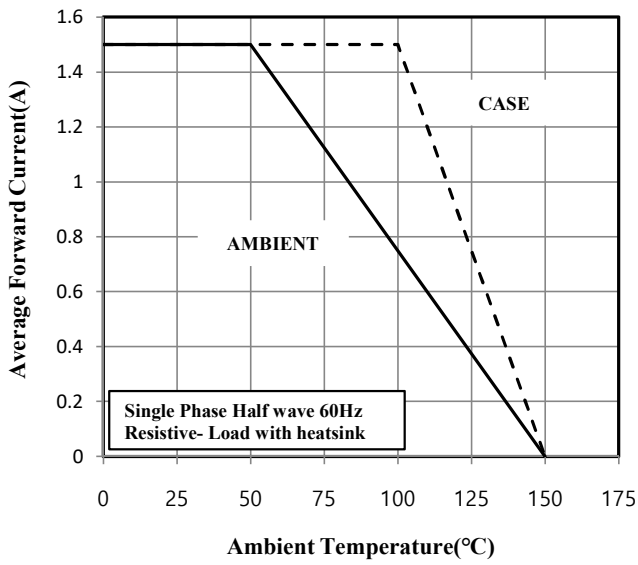


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current Per Bridge Element

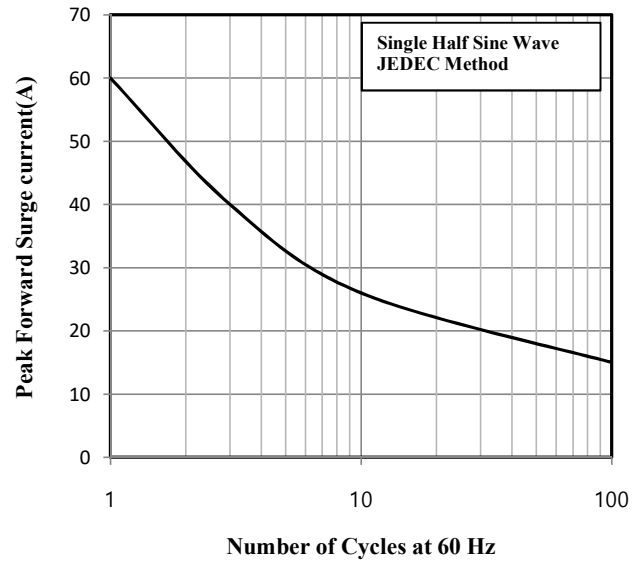


Fig.3 Typical Instantaneous Forward Characteristics Per Bridge Element

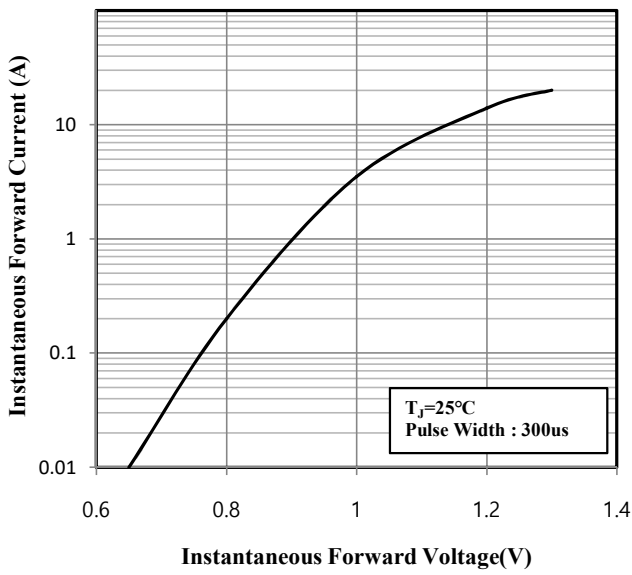


Fig.4 Typical Reverse Characteristics

