



D2SB05 THRU D2SB80

Single Phase 1.5 AMPS. Glass Passivated Bridge Rectifiers



Voltage Range
50 to 800 Volts
Current
1.5 Amperes

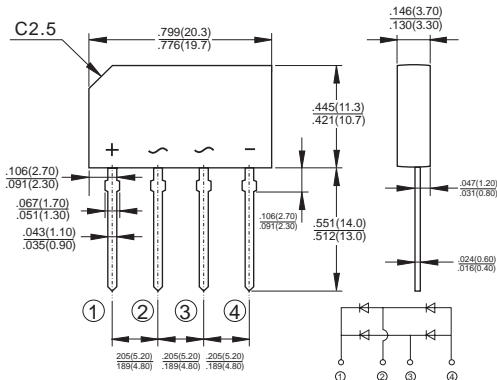
Features

- ✧ Glass passivated chip junction
- ✧ Ideal for printed circuit board
- ✧ High case dielectric strength
- ✧ Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- ✧ Typical IR less than 0.1 μ A
- ✧ High surge current capability
- ✧ High temperature soldering guaranteed: 260 $^{\circ}$ C / 10 seconds / .375", (9.5mm) lead lengths.

Mechanical Data

- ✧ Case: Molded plastic body.
- ✧ Terminals: Plated leads solderable per MIL-STD-750, Method 2026.
- ✧ Weight: 0.071 ounce, 2.0 grams
- ✧ Mounting position: Any

GBL



Maximum Ratings and Electrical Characteristics

Rating at 25 $^{\circ}$ C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

| Type Number | Symbol | D2SB 05 | D2SB 10 | D2SB 20 | D2SB 40 | D2SB 60 | D2SB 80 | Units |
|--|------------------------------------|--------------|------------|------------|------------|------------|------------|--------------------|
| Maximum Recurrent Peak Reverse Voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | V |
| Maximum RMS Voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | V |
| Maximum DC Blocking Voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | V |
| Maximum Average Forward Rectified Current @ $T_A = 50^{\circ}C$ | $I_{(AV)}$ | 1.5 | | | | | | A |
| Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | I_{FSM} | 80 | | | | | | A |
| Maximum Instantaneous Forward Voltage @ 0.75A | V_F | 1.05 | | | | | | V |
| Maximum DC Reverse Current @ $T_A=25^{\circ}C$ at Rated DC Blocking Voltage @ $T_A=125^{\circ}C$ | I_R | 10.0 500 | | | | | | μ A μ A |
| Typical Thermal Resistance Per Leg (Note) | $R_{\theta JA}$ $R_{\theta JL}$ | 47.0 10.0 | | | | | | $^{\circ}C/W$ |
| Operating Temperature Range | T_J | -55 to +150 | | | | | | $^{\circ}C$ |
| Storage Temperature Range | T_{STG} | -55 to + 150 | | | | | | $^{\circ}C$ |

Notes 1: Units Mounted In Free Air No Heat Sink On PCB 0.4" x 0.4" (10mm x 10mm) Copper Pads, 0.375"(9.5mm) Lead Length.



RATINGS AND CHARACTERISTIC CURVES (D2SB05 THRU D2SB80)

FIG.1- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

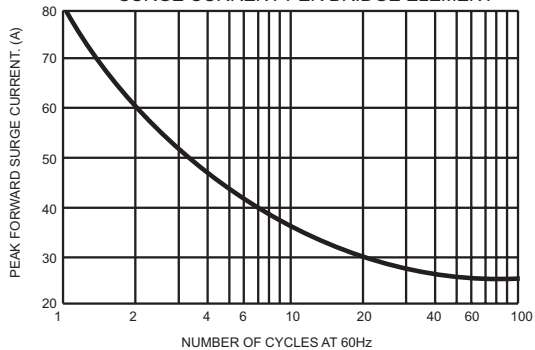


FIG.2- MAXIMUM FORWARD CURRENT DERATING CURVE

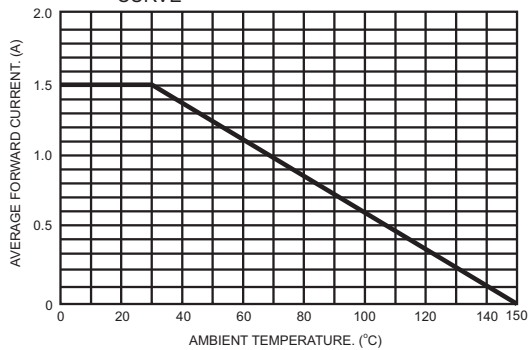


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

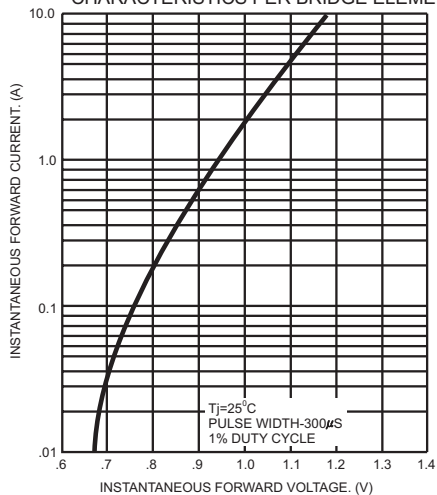
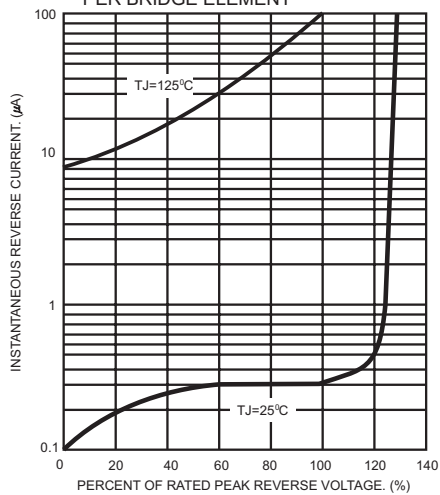


FIG.4- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT





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