

# DB101S THRU DB107S

## SINGLE-PHASE GLASS PASSIVATED SILICON SURFACE MOUNT BRIDGE RECTIFIER

Reverse Voltage - 50 to 1000 V

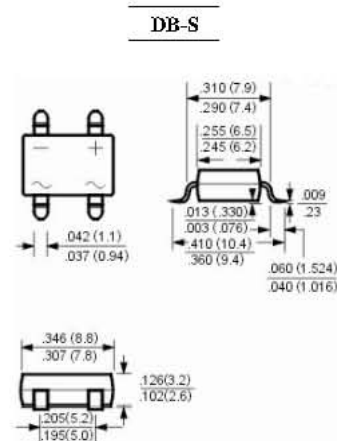
Forward Current - 1 A

### Features

- High surge overload rating of 50 A peak
- Ideal for printed circuit board
- Low forward voltage drop
- Glass passivated chip junction

### Mechanical Data

- Case: Molded plastic, DB-S
- Epoxy: UL 94V-0 rate flame retardant
- Terminal: Leads solderable per MIL-STD-202, method 208 guaranteed
- Mounting position: Any



Dimensions in inches and (millimeters)

### Maximum Ratings and Electrical Characteristics

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

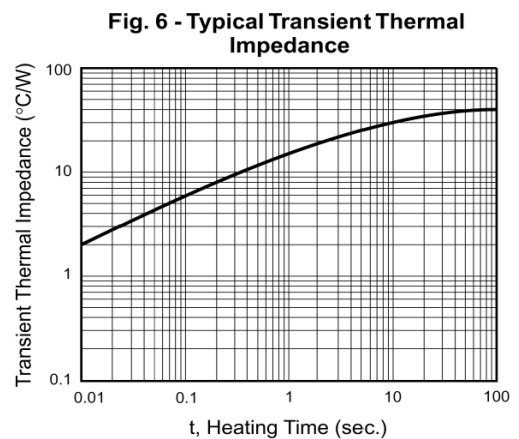
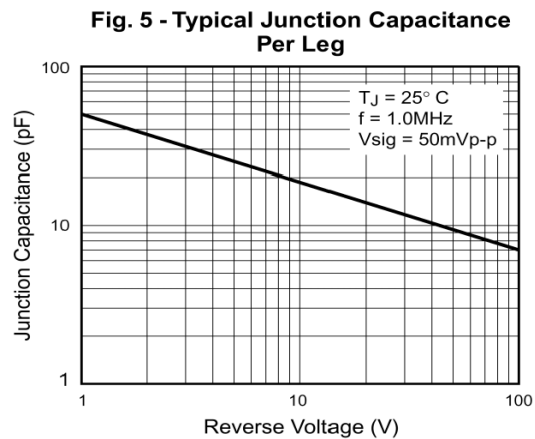
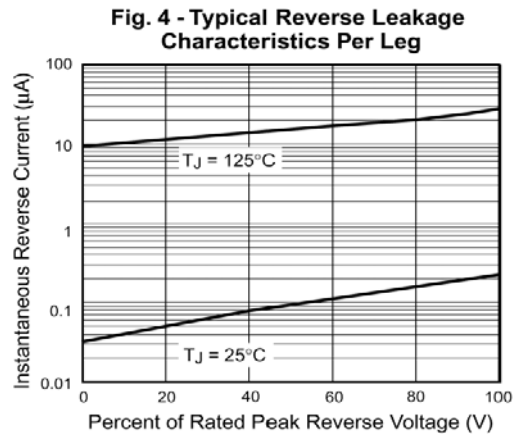
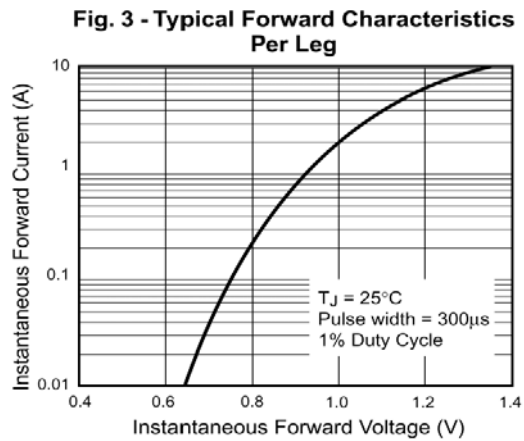
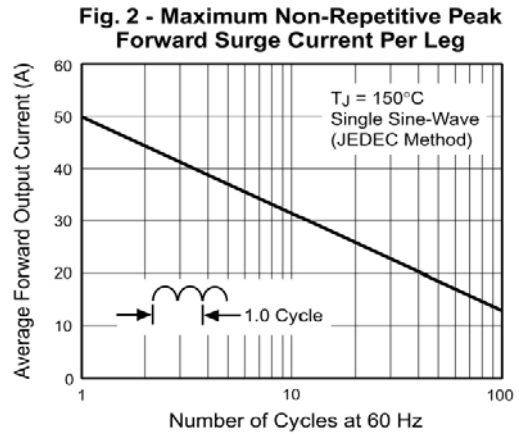
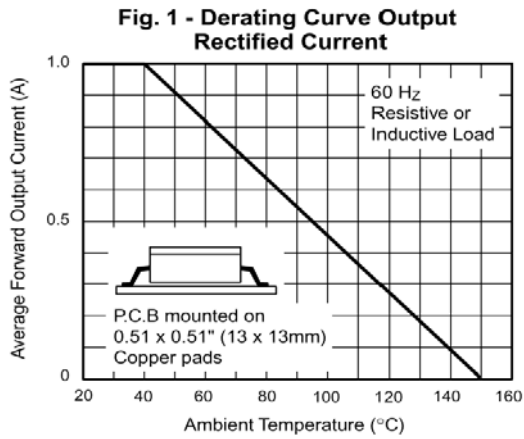
Parameter	Symbols	DB101S	DB102S	DB103S	DB104S	DB105S	DB106S	DB107S	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at $T_A = 40^\circ\text{C}$ <sup>2)</sup>	$I_{(AV)}$	1							A
Peak Forward Surge Current 8.3 ms Single Half-sine -wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	50							A
Maximum Forward Voltage at 1 A DC	$V_F$	1.1							V
Maximum Reverse Current at Rated DC Blocking Voltage	$I_R$	5 500							$\mu\text{A}$
Typical Junction Capacitance <sup>1)</sup>	$C_J$	25							pF
Typical Thermal Resistance <sup>2)</sup>	$R_{\theta JA}$	40							°C/W
Typical Thermal Resistance <sup>2)</sup>	$R_{\theta JL}$	15							°C/W
Operating and Storage Temperature Range	$T_j, T_{stg}$	- 55 to + 150							°C

<sup>1)</sup> Measured at 1 MHz and applied reverse voltage of 4 V DC.

<sup>2)</sup> Units mounted P.C.B. with 0.5 X 0.5" (13 X 13 mm) copper pads.

**TOP DYNAMIC**

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