

## SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

**DB101S THRU DB107S**

**VOLTAGE RANGE**  
**CURRENT**

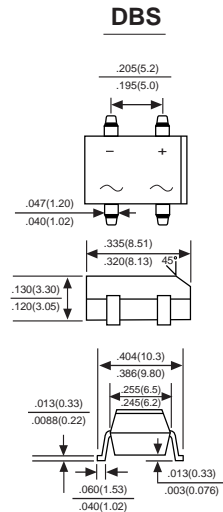
**50 to 1000 Volts**  
**1.0 Ampere**

### FEATURES

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

### MECHANICAL DATA

- Case: Molded plastic body
- Terminals : Plated leads solderable per MIL-STD-750, Method 2026
- Polarity : Polarity symbols marked on case
- Mounting Position : Any
- Weight:0.02 ounce, 0.4 grams



*Dimensions in inches and (millimeters)*

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOLS	DB 101S	DB 102S	DB 103S	DB 104S	DB 105S	DB 106S	DB 107S	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	$V_{RMS}$	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at $T_A=40^*$	$I_{F(AV)}$	1.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	$I_{FSM}$	50							Amps
Maximum instantaneous forward voltage drop per bridge element at 1.0A	$V_F$	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage $T_A=25^*$ $T_A=125^*$	$I_R$	10 500							$\mu A$ $\mu A$
Operating temperature range	$T_J$	-55 to +150							*
storage temperature range	$T_{STG}$	-55 to +150							*

NOTES:DBS for surface mount package.

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FIG. 1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

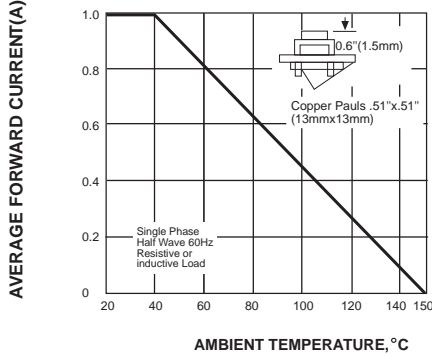


FIG. 2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

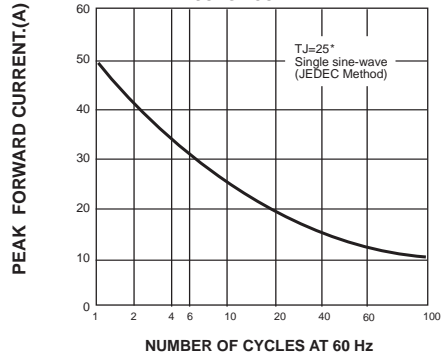


FIG. 3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

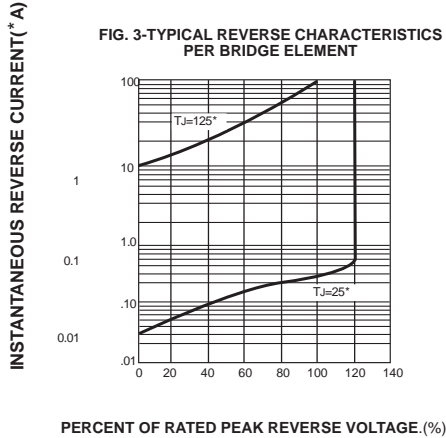


FIG. 4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

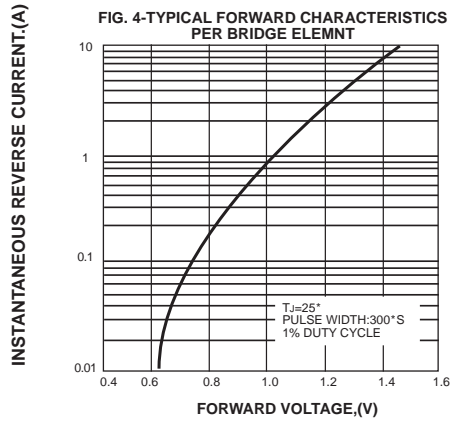


FIG. 3- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

