



## SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

DB151S THRU DB157S

VOLTAGE RANGE  
CURRENT

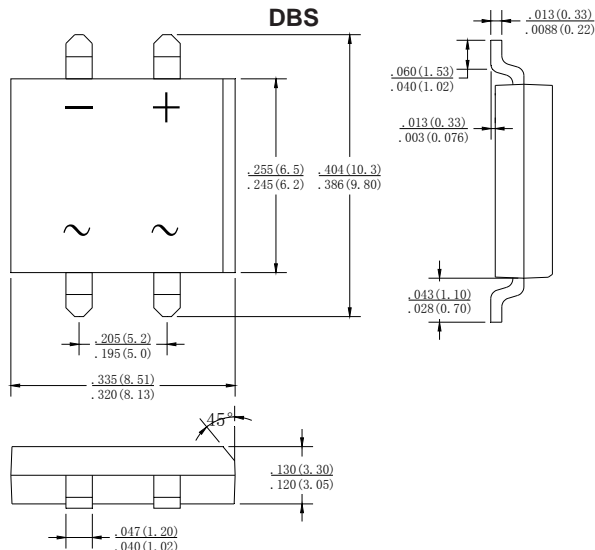
50 to 1000 Volts  
1.5 Ampere

### FEATURES

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed: 260°C/10 seconds / 0.375" (9.5mm) lead length at 5 lbs., (2.3kg)tension

### MECHANICAL DATA

- Case: Molded plastic body
- Lead: Solder plated
- Polarity: Polarity symbols marked on case



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%.

	SYMBOLS	DB 151S	DB 152S	DB 153S	DB 154S	DB 155S	DB 156S	DB 157S	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 $T_A=40^\circ\text{C}$	$I_{F(AV)}$	1.5							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	$I_R$	10 500							$\mu\text{A}$ $\mu\text{A}$
Typical thermal resistance (NOTE)	$R_{\theta JA}$ $R_{\theta JL}$	40 15							
Operating temperature range	$T_J$	-55 to +150							$^\circ\text{C}$
storage temperature range	$T_{STG}$	-55 to +150							$^\circ\text{C}$

NOTE: Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. mounted with 0.47x0.47" (12x12mm) copper pads.

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FIG. 1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

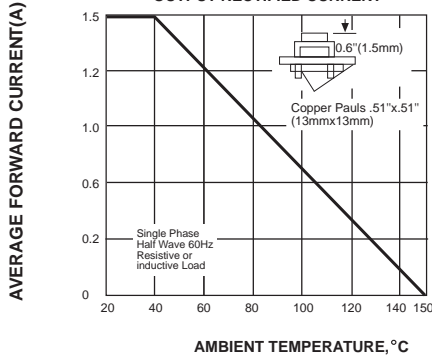


FIG. 2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

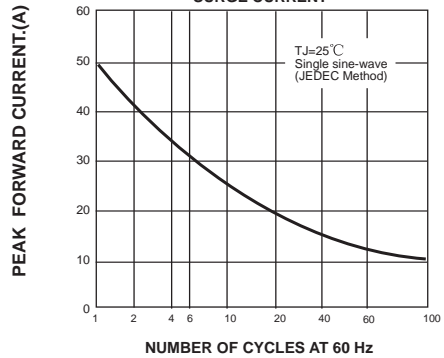


FIG. 3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

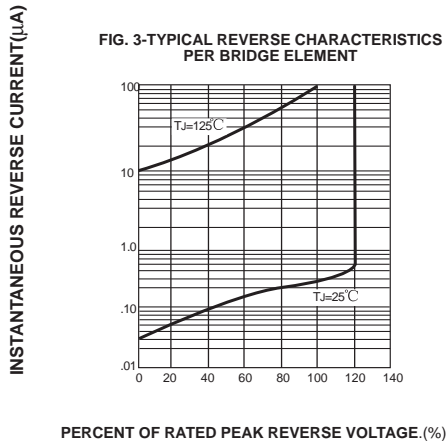


FIG. 4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

