

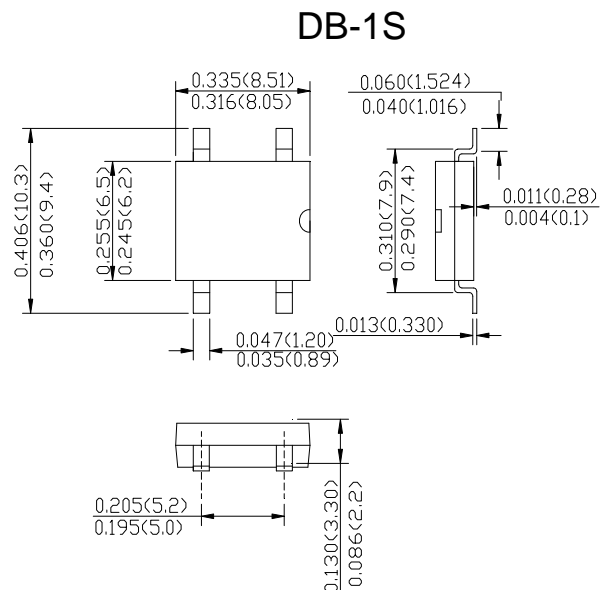
SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIERS SINGLE-PHASE GLASS BRIDGE DB151S THRU DB157S 50 to 1000 V 1.5 A

FEATURES

- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- Lead in plated copper
- The plastic material has UL flammability classification 94V-0

MECHANICAL DATA

- Polarity: as marked on body
- Weight: 0.02 ounces, 0.38 grams
- 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%.

	Symbols	DB 151S	DB 152S	DB 153S	DB 154S	DB 155S	DB 156S	DB 157S	Units
Maximum Recurrent 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 @ $T_A = 40^\circ\text{C}$	$I_{(AV)}$	1.5							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	30							Amp
Maximum DC Forward Voltage drop per element at A DC	V_F	1.1							Volts
Maximum DC Reverse Current at rated @ $T_A = 25^\circ\text{C}$ DC Blocking Voltage Per Element @ $T_A = 125^\circ\text{C}$	I_R	10 500							μAmp
$I^2 t$ Rating for fusing ($t < 8.3\text{ms}$)	$I^2 t$	3.7							A^2S
Typical Thermal Resistance (Note3)	$R_{\theta JA}$	68							$^\circ\text{C}/\text{W}$
Operating Temperature Range	T_J	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ\text{C}$

NOTES:

1. Measured at 1.0MHz and applied reverse of voltage of 4.0V DC.
2. Thermal Resistance from Junction to ambient mounted on P.C.B. with $0.5 \times 0.5"$ ($13 \times 13\text{mm}$) copper pads.

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RATINGS AND CHARACTERISTIC CURVES (DB151S THRU DB157S)

FIG. 1 - FORWAED CURRENT DERATING CURVE

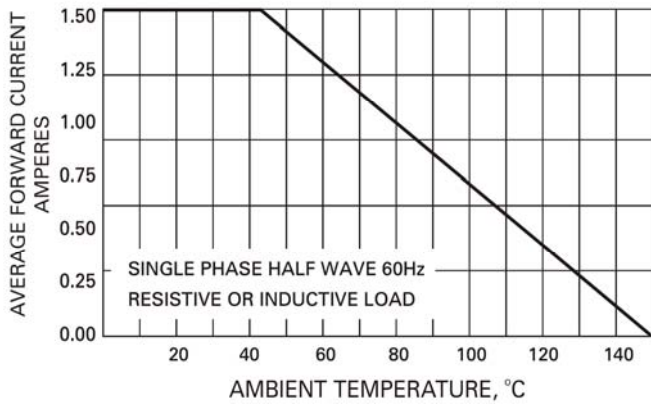


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

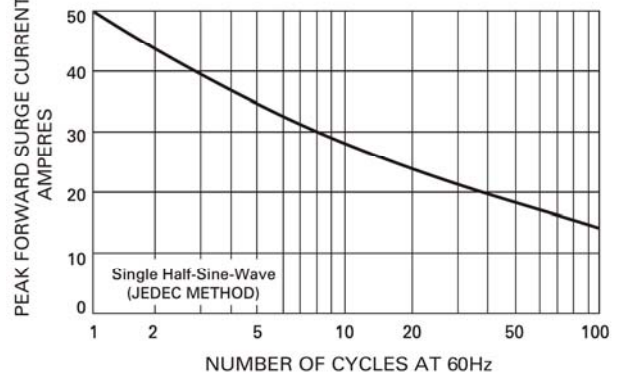


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

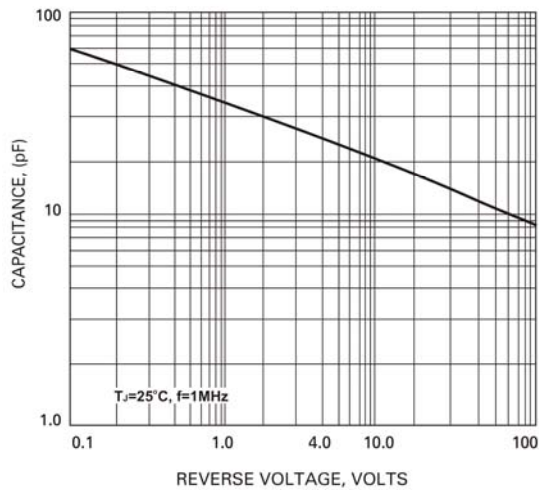


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS

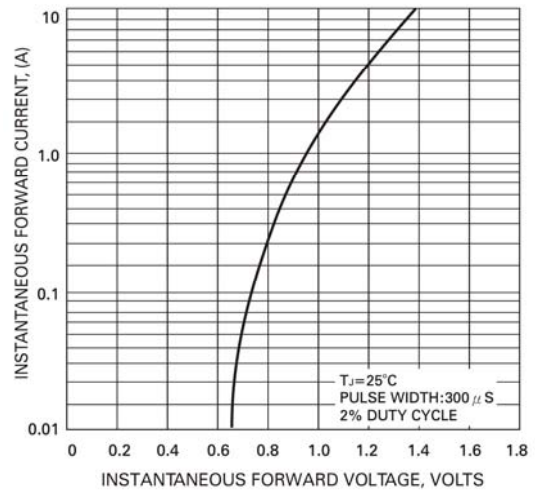


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS

