

# ***DB15XS SERIES***



**MINIATURE SINGLE-PHASE GLASS PASSIVATED SURFACE MOUNT  
BRIDGE RECTIFIER**

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# DB151S THRU DB159S

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

**REVERSE VOLTAGE:** 50 to 1400 VOLTS  
**FORWARD CURRENT:** 1.5 AMPERE

### FEATURES

- Glass passivated chip junction
- Low forward voltage drop
- High surge current capability
- Ideal for printed circuit board
- High temperature soldering guaranteed:  
260°C for 10 seconds

### MECHANICAL DATA

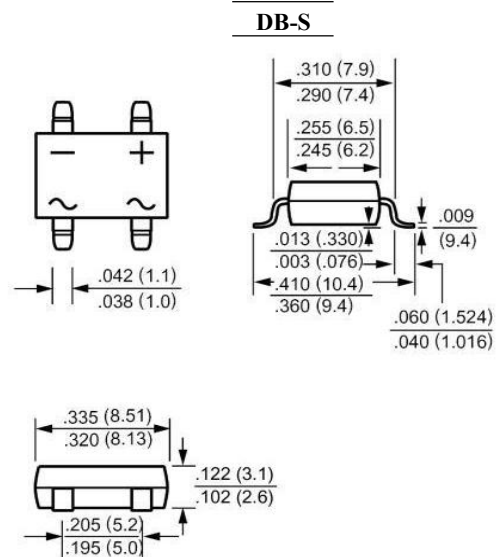
Case: Molded plastic, DB-S

Epoxy: UL 94V-O rate flame retardant

Terminals: Pure tin plated, lead free, Leads solderable per MIL-STD-202, method 208 guaranteed

Mounting position: as Marking

Weight: 0.33gram



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	DB151S	DB152S	DB153S	DB154S	DB155S	DB156S	DB157S	DB158S	DB159S	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	1200	1400	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	840	980	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	1200	1400	Volts
Maximum Average Forward Rectified Current at TA=40°C	I <sub>(AV)</sub>	1.5									Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	50									Amp
Maximum Forward Voltage at 1.5A DC and 25°C	V <sub>F</sub>	1.10							1.25		Volts
Maximum Reverse Current at TA=25°C at Rated DC Blocking Voltage TA=125°C	I <sub>R</sub>	10						500			uAmp
Typical Thermal Resistance (Note 1)	R <sub>θJA</sub>	40									°C/W
	R <sub>θJL</sub>	15									
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>stg</sub>	-55 to +150									°C

### NOTES:

1- Units mounted on P.C.B. with 0.5 x 0.5" (13 x 13mm) copper pads

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MINIATURE SINGLE-PHASE GLASS PASSIVATED SURFACE MOUNT BRIDGE RECTIFIER 岑祥科技

## RATINGS AND CHARACTERISTIC CURVES

FIG.1- MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

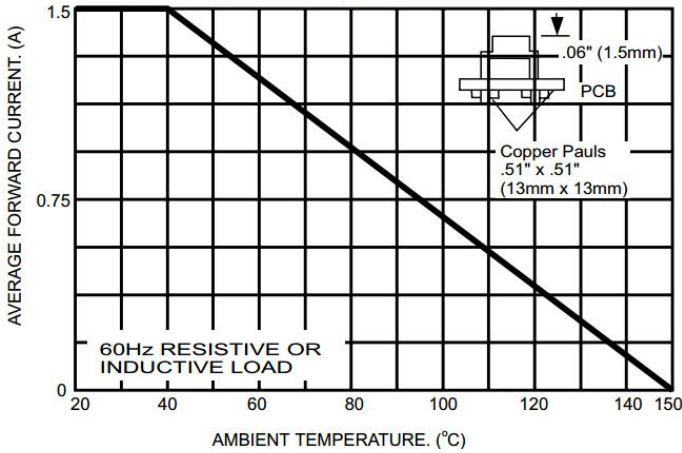


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER BRIDGE ELEMENT

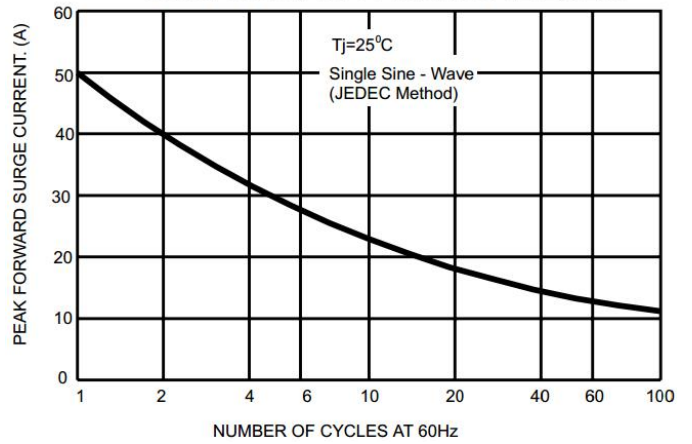


FIG.3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

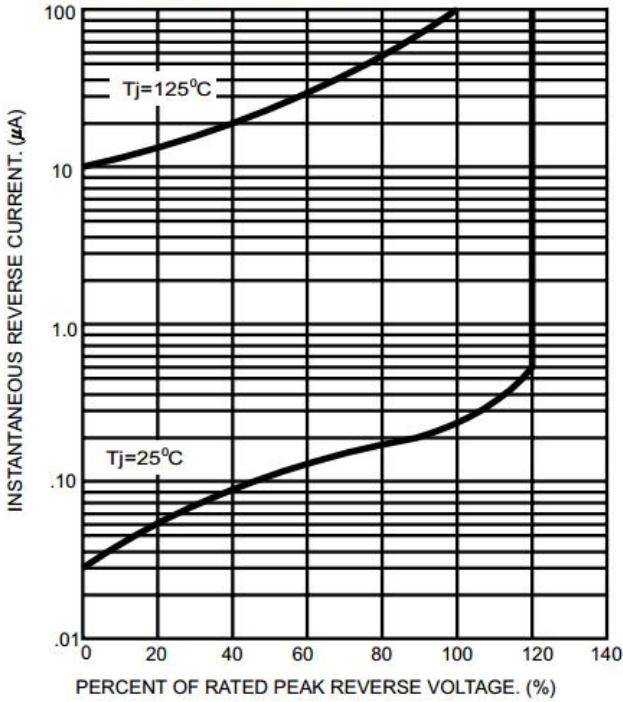


FIG.4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

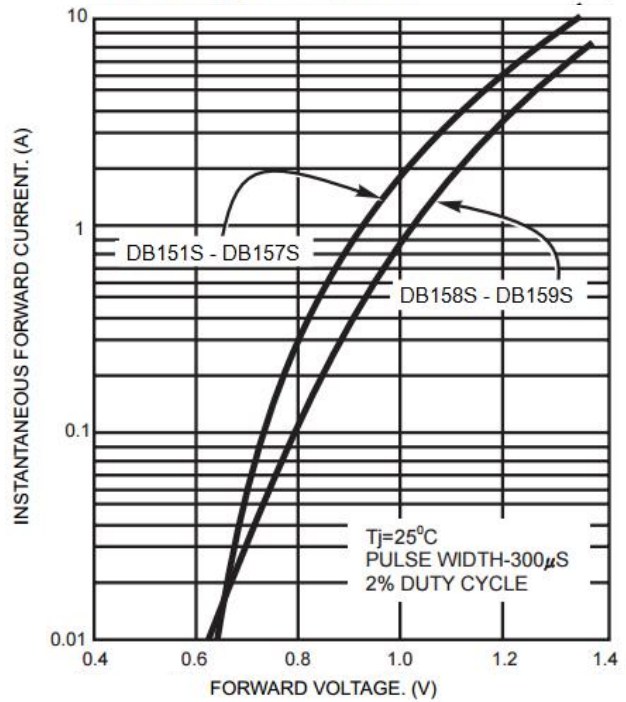


FIG.5- TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT

