

# DB151~DB157

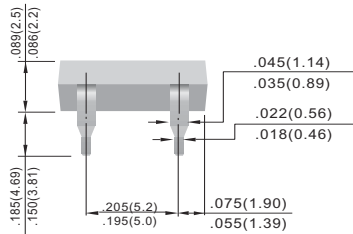
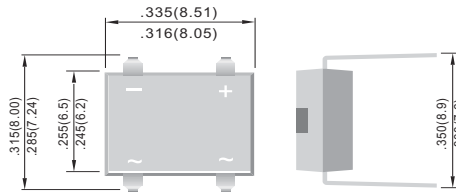
## DUAL-IN-LINE GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

**VOLTAGE** 50 to 1000 Volts **CURRENT** 1.5 Amperes



DB1

Unit : inch (mm)



### FEATURES

- Plastic material used carries Underwriters Laboratory recognition 94V-0
- Low leakage
- Surge overload rating-- 50 amperes peak
- Ideal for printed circuit board
- Exceeds environmental standards of MIL-S-19500/228
- Both normal and Pb free product are available :  
 Normal : 80~95% Sn, 5~20% Pb  
 Pb free: 98.5% Sn above

### MECHANICAL DATA

Case: Reliable low cost construction utilizing molded plastic technique results in inexpensive product

Terminals: Lead solderable per MIL-STD-202, Method 208

Polarity: Polarity symbols molded or marking on body

Mounting Position: Any

### 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	SYMBOL	DB151	DB152	DB153	DB154	DB155	DB156	DB157	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Current TA=40°C	I <sub>AV</sub>	1.5							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	40							A
I <sup>2</sup> t Rating for fusing ( t<8.35ms)	I <sup>2</sup> t	10							A <sup>2</sup> t
Maximum Forward Voltage Drop per Bridge Element at 1.0A	V <sub>F</sub>	1.1							V
Maximum DC Reverse Current TJ=25 °C at Rated DC Blocking Voltage TJ=125 °C	I <sub>R</sub>	10.0 500							uA
Typical Junction capacitance (Note 1)	C <sub>J</sub>	25							pF
Typical thermal resistance per leg ((Note 2)	R <sub>θJA</sub> R <sub>θJL</sub>	40 15							°C / W
Operating and Storage Temperature Range	T <sub>J</sub>	-55 to + 125							°C
Storage Temperature Range	T <sub>A</sub>	-55 to + 150							°C

NOTES:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
2. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.5 X 0.5"(13 X 13mm) copper pads

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## RATING AND CHARACTERISTIC CURVES

