

# 1(B,G,J)4B1

**PRV : 100 - 600 Volts**  
**Io : 1.5 Ampere**

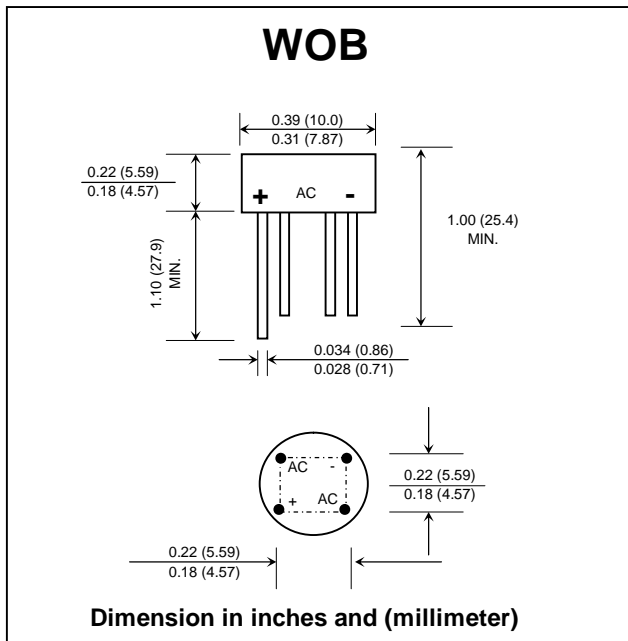
**FEATURES :**

- \* High case dielectric strength
- \* High surge current capability
- \* High reliability
- \* Low reverse current
- \* Low forward voltage drop
- \* Ideal for printed circuit board
- \* **Pb / RoHS Free**

**MECHANICAL DATA :**

- \* Case : Reliable low cost construction utilizing molded plastic technique
- \* Epoxy : UL94V-O rate flame retardant
- \* Terminals : Plated leads solderable per MIL-STD-202, Method 208 guaranteed
- \* Polarity : Polarity symbols marked on case
- \* Mounting position : Any
- \* Weight : 1.29 grams

## SILICON BRIDGE RECTIFIERS



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

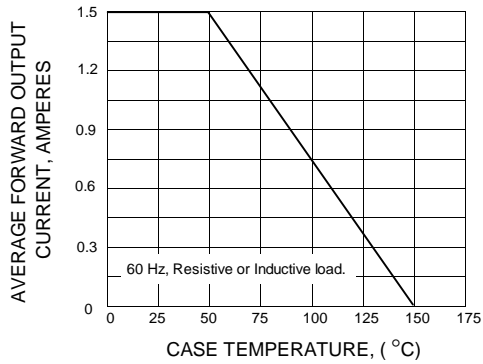
Rating at 25 °C ambient temperature unless otherwise specified.

RATING	SYMBOL	1B4B1	1G4B1	1J4B1	UNIT
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	100	400	600	V
Maximum Average Output Rectified Current, Ta = 50°C	I <sub>F(AV)</sub>	1.5			A
Maximum Peak One Cycle Surge Forward Current (Non Repetitive)	I <sub>FSM</sub>	50 (50 Hz)			A
		55 (60 Hz)			
Maximum Forward Voltage at I <sub>F</sub> = 1.5 A	V <sub>F</sub>	1.2			V
Maximum Repetitive Peak Reverse Current at V <sub>RRM</sub> = Rated, T <sub>j</sub> = 150°C	I <sub>RRM</sub>	0.4			mA
Junction Temperature	T <sub>j</sub>	-40 to +150			°C
Storage Temperature Range	T <sub>STG</sub>	-40 to +150			°C

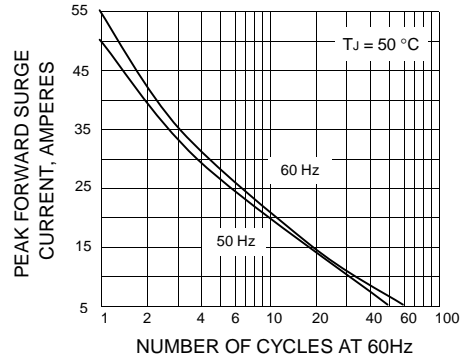


### RATING AND CHARACTERISTIC CURVES 1(B,G,J)4B1

**FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



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



**FIG.3 - TYPICAL FORWARD CHARACTERISTICS**

