

# D2SB60

**PRV : 600 Volts**  
**Io : 2.0 Amperes**

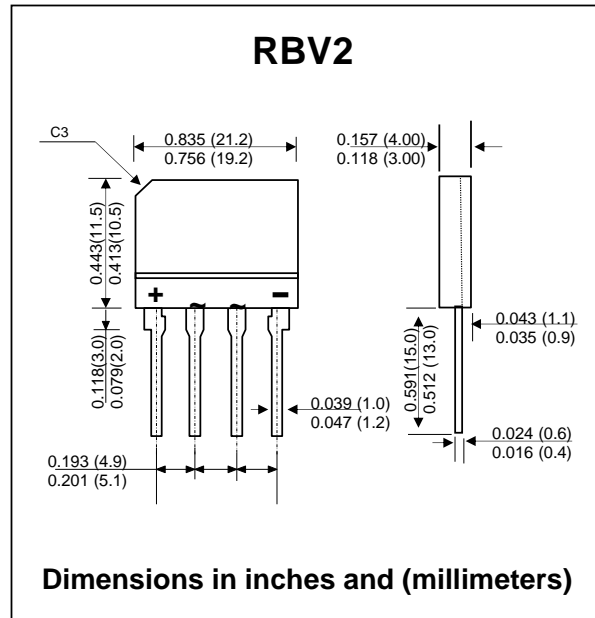
**FEATURES :**

- \* High surge current capability
- \* High reliability
- \* Low reverse current
- \* Low forward voltage drop
- \* Ideal for printed circuit board
- \* Very good heat dissipation
- \* **Pb Free/ RoHS Compliance**

**MECHANICAL DATA :**

- \* Case : Reliable low cost construction utilizing molded plastic technique
- \* Epoxy : UL94V-0 rate flame retardant
- \* Terminals : Plated lead solderable per MIL-STD-202, Method 208 guaranteed
- \* Polarity : Polarity symbols marked on case
- \* Mounting position : Any
- \* Weight : 4.28 grams

# SILICON BRIDGE RECTIFIER



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

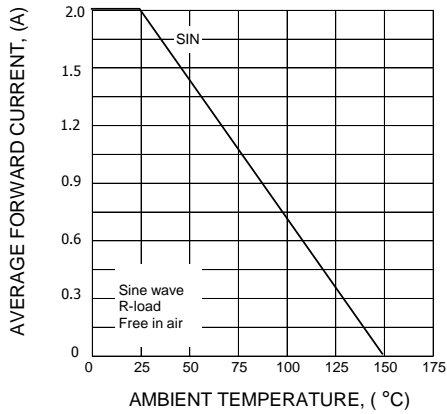
Rating at 25 °C ambient temperature unless otherwise specified.

| RATING  | SYMBOL          | VALUE         | UNIT               |
|---|-----------------|---------------|--------------------|
| Maximum Reverse Voltage   | $V_{RM}$        | 600           | V                  |
| Maximum Average Forward Current<br>60 Hz sine wave, R-load, On glass-epoxy substrate, $T_a = 25\text{ }^\circ\text{C}$              | $I_{F(AV)}$     | 2             | A                  |
| Maximum Peak Forward Surge Current, 60 Hz sine wave,<br>R-load, Non-repetitive 1 cycle peak value, $T_j = 25\text{ }^\circ\text{C}$ | $I_{FSM}$       | 90            | A                  |
| Maximum Forward Voltage per Diode at $I_F = 1.0\text{ A}$ (Note 1)  | $V_F$           | 1.0           | V                  |
| Maximum Reverse Current at Reverse Voltage (Note 1)   | $I_R$           | 5             | $\mu\text{A}$      |
| Thermal Resistance, Junction to Lead  | $R_{\theta JL}$ | 10            | $^\circ\text{C/W}$ |
| Thermal Resistance, Junction to Ambient   | $R_{\theta JA}$ | 47            | $^\circ\text{C/W}$ |
| Operating Junction Temperature  | $T_J$           | - 55 to + 150 | $^\circ\text{C}$   |
| Storage Temperature Range   | $T_{STG}$       | - 55 to + 150 | $^\circ\text{C}$   |

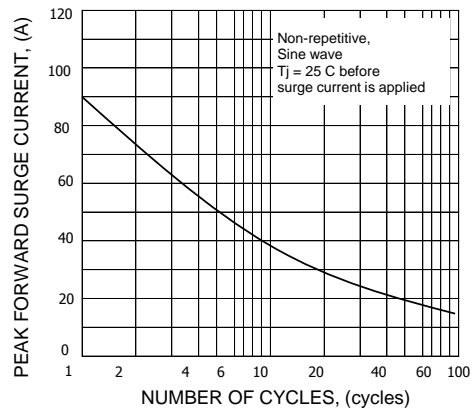
**Note :** (1) Pulse measurement, Rating of per diode

### RATING AND CHARACTERISTIC CURVES ( D2SB60 )

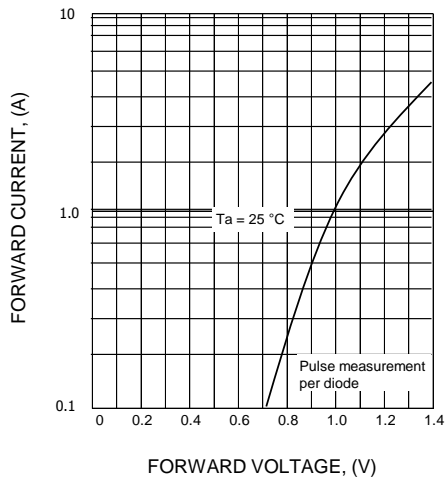
**FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



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



**FIG.3 - TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 - FORWARD POWER DISSIPATION**

