

# RS601 THRU RS607

## SINGLE – PHASE BRIDGE RECTIFIERS

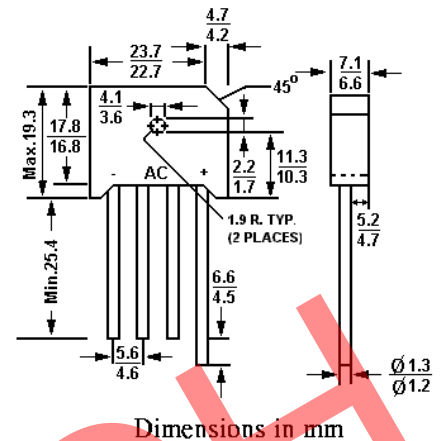
Reverse Voltage – 50 to 1000 Volts

Forward Current – 6.0 Amperes

RS-6

### Features

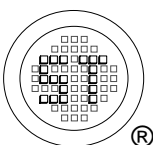
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has Underwriters Laboratory Flammability Classification 94V-0.
- Surge overload rating: 200 amperes peak.
- Mounting Position: Any



### Absolute Maximum Ratings and Characteristics

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz, For capacitive load, derate current by 20%.

|  | Symbols        | RS601       | RS602 | RS603 | RS604 | RS605 | RS606 | RS607 | Units              |
|--|----------------|-------------|-------|-------|-------|-------|-------|-------|--------------------|
| Maximum repetitive peak reverse voltage  | $V_{RRM}$      | 50          | 100   | 200   | 400   | 600   | 800   | 1000  | V                  |
| Maximum RMS bridge input voltage   | $V_{RMS}$      | 35          | 70    | 140   | 280   | 420   | 560   | 700   | V                  |
| Maximum DC blocking voltage  | $V_{DC}$       | 50          | 100   | 200   | 400   | 600   | 800   | 1000  | V                  |
| Maximum average forward rectified output current at $T_C = 100^\circ C$ , $T_A = 65^\circ C / 40^\circ C / 45^\circ C$ | $I_{(AV)}$     | 6           |       |       |       |       |       |       | A                  |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (MIL-STD-750 method 4066)            | $I_{FSM}$      | 250         |       |       |       |       |       |       | A                  |
| Maximum instantaneous forward voltage drop per element at 6.0A   | $V_F$          | 1           |       |       |       |       |       |       | V                  |
| Maximum DC reverse leakage at rated $T_A = 25^\circ C$<br>DC blocking voltage per element $T_C = 100^\circ C$          | $I_R$          | 10<br>200   |       |       |       |       |       |       | $\mu A$<br>$\mu A$ |
| Operating and storage temperature range  | $T_J, T_{Stg}$ | -65 to +150 |       |       |       |       |       |       | $^\circ C$         |



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