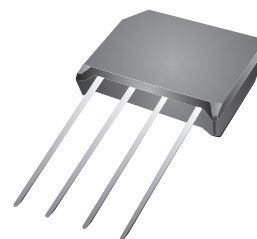


## RS201-G Thru. RS207-G

Reverse Voltage: 50 to 1000V

Forward Current: 2.0Amperes

RoHS Device

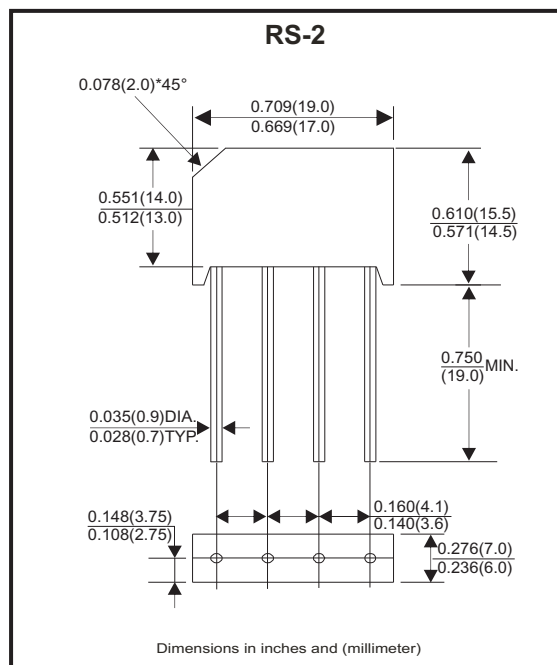


### Features

- Surge overload rating -50 amperes peak.
- Ideal for printed circuit board.

### Mechanical Data

- Epoxy: UL 94V-0 rate flame retardant.
- Case: Molded plastic, RS-2
- Mounting position: Any
- Weight: 2.85 grams.



### Maximum ratings and electrical characteristics

Rating 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    | RS201-G     | RS202-G | RS203-G | RS204-G | RS205-G | RS206-G | RS207-G | Unit             |
|-----------------------------------------------------------------------------------------------------------|-----------|-------------|---------|---------|---------|---------|---------|---------|------------------|
| Maximum Recurrent Peak Reverse Voltage                                                                    | $V_{RRM}$ | 50          | 100     | 200     | 400     | 600     | 800     | 1000    | V                |
| Maximum RMS 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 Current<br>0.375" (9.5mm) Lead Lengths @ $T_A = 40^\circ C$             | $I_{AV}$  | 2.0         |         |         |         |         |         |         | A                |
| Peak Forward Surge Current ,<br>8.3ms Single Half Sine-Wave<br>Super Imposed On Rated Load (JEDEC Method) | $I_{FSM}$ | 50          |         |         |         |         |         |         | A                |
| Rating For Fusing ( t < 8.3 ms)                                                                           | $I^2t$    | 15          |         |         |         |         |         |         | A <sup>2</sup> s |
| Maximum Forward Voltage Drop<br>Per Element at 2.0A Peak                                                  | $V_F$     | 1.1         |         |         |         |         |         |         | V                |
| Maximum DC Reverse Current<br>At Rated DC Blocking Voltage<br>$T_J = 25^\circ C$<br>$T_J = 100^\circ C$   | $I_R$     | 10.0<br>1.0 |         |         |         |         |         |         | $\mu A$<br>mA    |
| Typical Junction Capacitance Per Element (Note 1)                                                         | $C_J$     | 30          |         |         |         |         |         |         | pF               |
| Operating Temperature Range                                                                               | $T_J$     | -55 to +150 |         |         |         |         |         |         | °C               |
| Storage Temperature Range                                                                                 | $T_{STG}$ | -55 to +150 |         |         |         |         |         |         | °C               |

Note: 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

Company reserves the right to improve product design , functions and reliability without notice.

REV:A

## Rating and Characteristics Curves ( RS201-G Thru. RS207-G )

Fig.1 - Derating Curve For Output Rectified Current

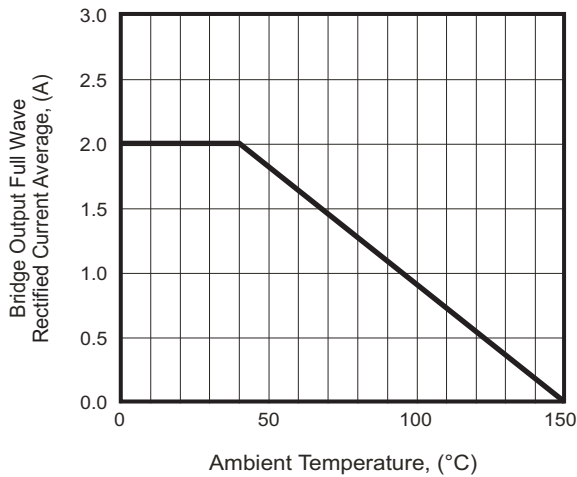


Fig.2 - Maximum Non-Repetitive Surge Current

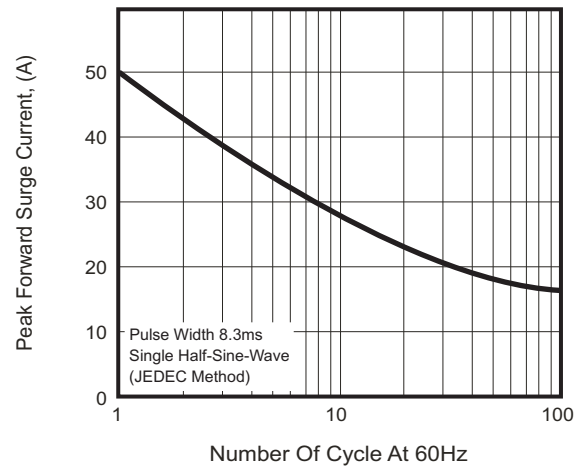


Fig.3 - Typical Forward Characteristics

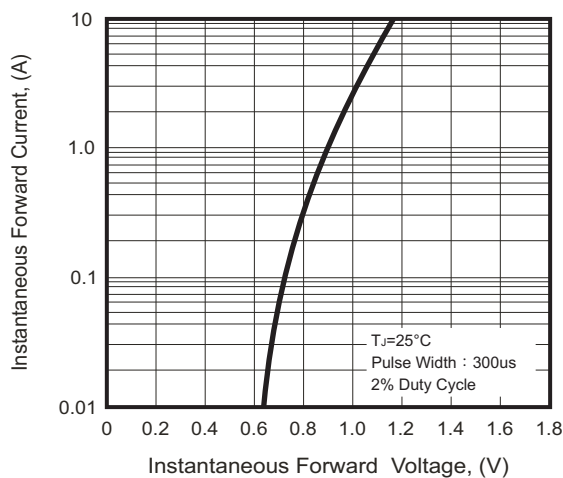


Fig.4 - Typical Reverse Characteristics

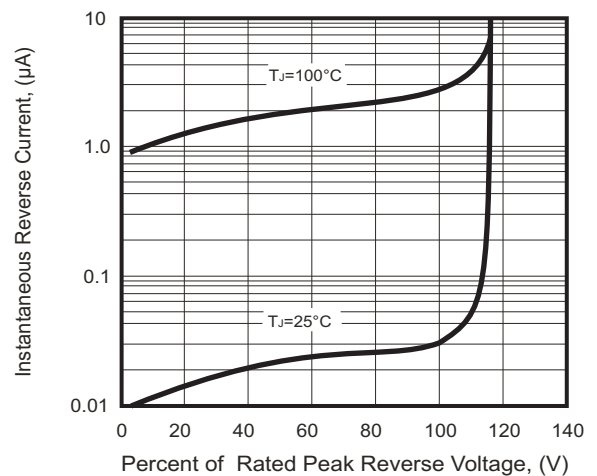
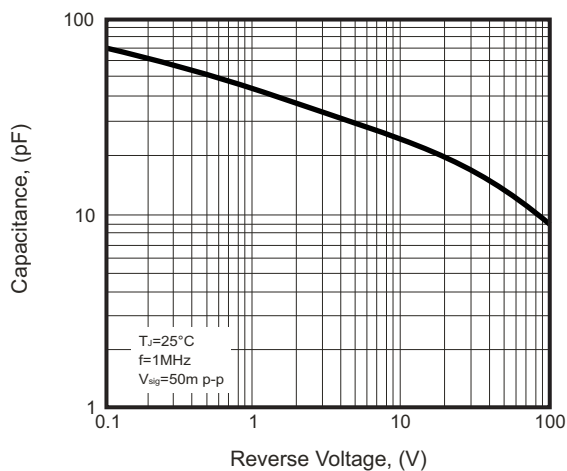
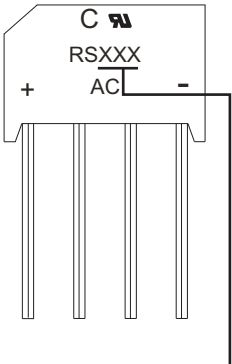


Fig.5 - Typical Junction Capacitance



Marking Code

| Part Number | Marking code |
|-------------|--------------|
| RS201-G     | RS201        |
| RS202-G     | RS202        |
| RS203-G     | RS203        |
| RS204-G     | RS204        |
| RS205-G     | RS205        |
| RS206-G     | RS206        |
| RS207-G     | RS207        |



XXX = Product type marking code  
C = Comchip Logo

Standard Packaging

| Case Type | BULK PACK      |                   |
|-----------|----------------|-------------------|
|           | BOX<br>( pcs ) | CARTON<br>( pcs ) |
| RS-2      | 400            | 4,000             |