

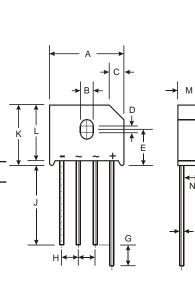
RS601 - RS607

6.0A BRIDGE RECTIFIER

Features

NOT RECOMMENDED FOR NEW DESIGNS, PLEASE USE GBU6005 - GBU610

- UL Recognized, File #94661
- Ideal for Printed Circuit Board
- Surge Overload Rating of 250A Peak
- Low Forward Voltage Drop
- The Plastic Material Carries UL Recognition 94V-0
- Lead Free Finish, RoHS Compliant (Date Code 0514+) (Note 2)



| RS-6 | | | | | | |
|----------------------|------|------|--|--|--|--|
| Dim | Min | Max | | | | |
| Α | 22.7 | 23.7 | | | | |
| В | 3.6 | 4.1 | | | | |
| С | 4.2 | 4.7 | | | | |
| D | 1.7 | 2.2 | | | | |
| Е | 10.3 | 11.3 | | | | |
| G | 4.5 | 6.8 | | | | |
| Н | 4.6 | 5.6 | | | | |
| J | 25.4 | - | | | | |
| Κ | - | 19.3 | | | | |
| L | 16.8 | 17.8 | | | | |
| М | 6.6 | 7.1 | | | | |
| Ν | 4.7 | 5.2 | | | | |
| Р | 1.2 | 1.3 | | | | |
| All Dimensions in mm | | | | | | |

Mechanical Data

- Case: RS-6, Molded Plastic
- Terminals: Leads Solderable per MIL-STD-202, Method 208
- Polarity: Symbols Marked on Body
- Approx. Weight: 8.0 grams

Maximum Ratings and Electrical Characteristics @ T_A = 25°C unless otherwise specified

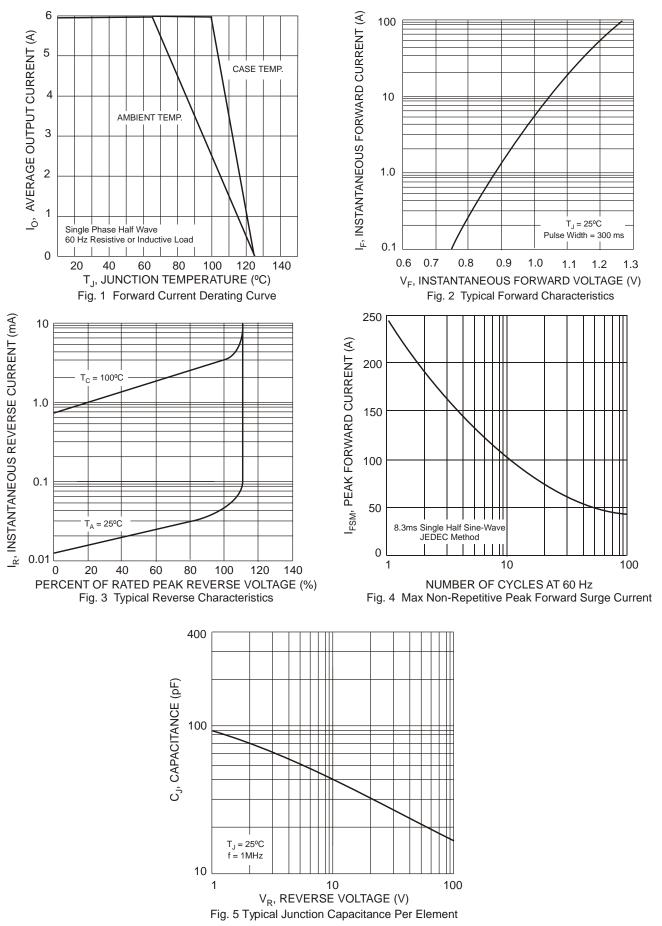
Single phase, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| Characteristic | Symbol | RS 601 | RS 602 | RS 603 | RS 604 | RS 605 | RS 606 | RS 607 | Units |
|---|-------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| Maximum Recurrent Peak Reverse Voltage | | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Bridge Input Voltage | V _{RSM} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| | I _(AV) | 6.0 | | | | | А | | |
| Peak Forward Surge current, 8.3 ms half sine-wave superimposed on rated load | I _{FSM} | 250 | | | | | | А | |
| Maximum DC Forward Voltage Drop per element at 3.0A | VF | 1.0 | | | | | | V | |
| $\begin{array}{llllllllllllllllllllllllllllllllllll$ | | 10 1.0 | | | | | | μA mA | |
| Maximum Thermal Resistance (Note 1) | | 4.7 | | | | | | °C/W | |
| Operating Temperature Range | | -55 to +125 | | | | | °C | | |
| Storage Temperature Range | | -55 to +150 | | | | | °C | | |

Notes: 1. Thermal Resistance junction to case per diode.

2. EC Directive 2002/95/EC (RoHS) revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.







Ordering Information (Note 3)

| Device | Packaging | Shipping |
|--------|-----------|-----------|
| RS601 | RS-6 | 0.5K Bulk |
| RS602 | RS-6 | 0.5K Bulk |
| RS603 | RS-6 | 0.5K Bulk |
| RS604 | RS-6 | 0.5K Bulk |
| RS605 | RS-6 | 0.5K Bulk |
| RS606 | RS-6 | 0.5K Bulk |
| RS607 | RS-6 | 0.5K Bulk |

Notes: 3. For packaging details, visit our website at http://www.diodes.com/datasheets/ap2008.pdf

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