

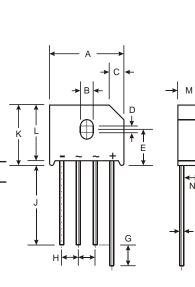
# RS601 - RS607

## 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<sub>A</sub> = 25°C unless otherwise specified

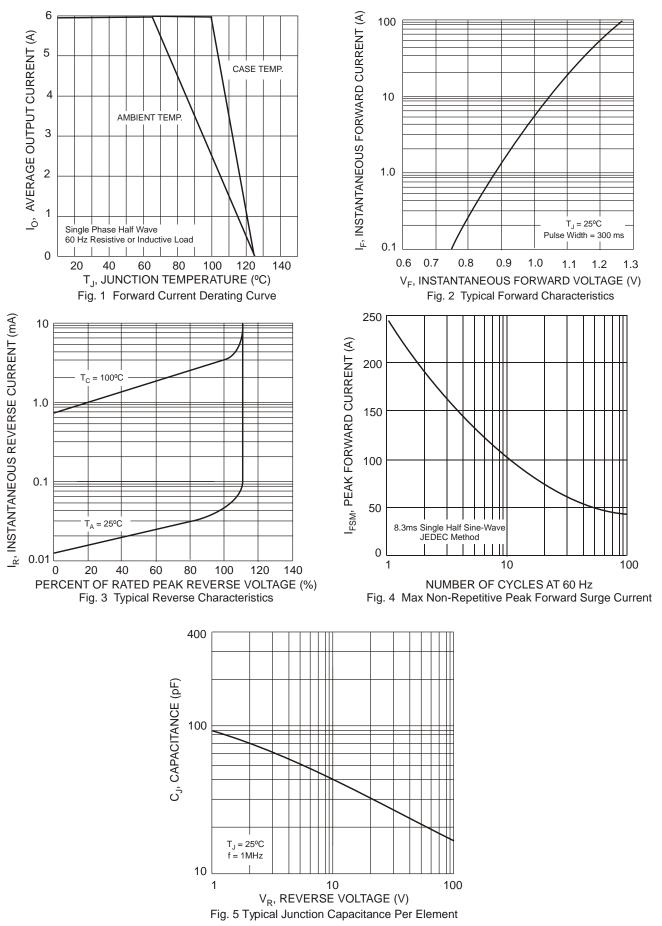
Single phase, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

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 <sub>RSM</sub>	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
	I <sub>(AV)</sub>	6.0					А		
Peak Forward Surge current, 8.3 ms half sine-wave superimposed on rated load	I <sub>FSM</sub>	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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