

RS601 - RS607

6.0A BRIDGE RECTIFIER

NOT RECOMMENDED FOR NEW DESIGNS, PLEASE USE GBU6005 - GBU610

Features

- 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	-				
K	-	19.3				
L	16.8	17.8				
М	6.6	7.1				
N	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

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

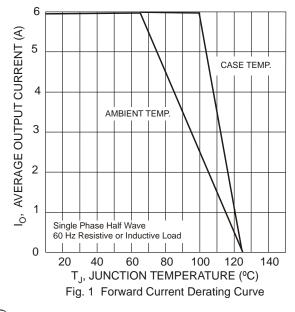
Single phase, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

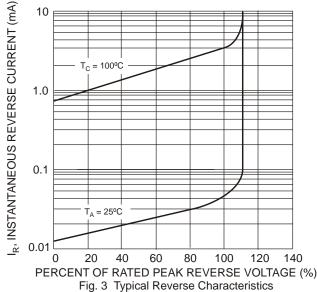
Characteristic	Symbol	RS 601	RS 602	RS 603	RS 604	RS 605	RS 606	RS 607	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V _{RSM}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Current @ $T_C = 100^{\circ}C$ @ $T_A = 40^{\circ}C$	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	
	I _R	10 1.0					μA mA		
Maximum Thermal Resistance (Note 1)	R JC	4.7					°C/W		
Operating Temperature Range	TJ	-55 to +125					°C		
Storage Temperature Range		-55 to +150					°C		

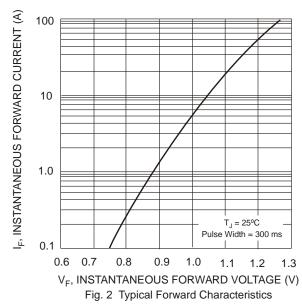
Notes:

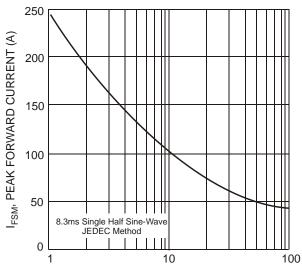
- 1. Thermal Resistance junction to case per diode.
- 2. EC Directive 2002/95/EC (RoHS) revision 13.2.2003. Glass and High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 5 and 7.











NUMBER OF CYCLES AT 60 Hz Fig. 4 Max Non-Repetitive Peak Forward Surge Current

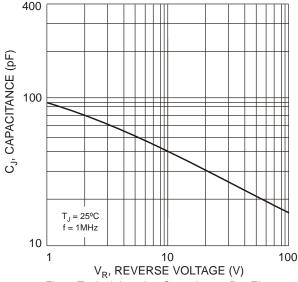


Fig. 5 Typical Junction Capacitance Per Element



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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