Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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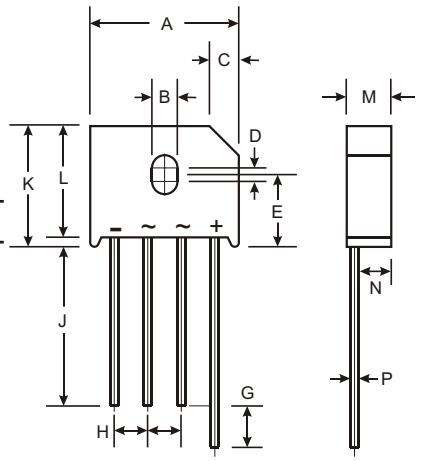
RS601 - RS607

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
- Easily Cleaned with Freon, Alcohol, Chlorothene and Similar Solvents
- The Plastic Material Carries UL Recognition 94V-0



RS-6		
Dim	**Min**	**Max**
A	22.7	23.7
B	3.6	4.1
C	4.2	4.7
D	1.7	2.2
E	10.3	11.3
G	4.5	6.8
H	4.6	5.6
J	25.4	-
K	-	19.3
L	16.8	17.8
M	6.6	7.1
N	4.7	5.2
P	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
- Mounting Position: Any

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	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°C @ T_A = 40°C	$I_{(AV)}$	6.0							A
Peak Forward Surge current, 8.3 ms half sine-wave superimposed on rated load	I_{FSM}	250							A
Maximum DC Forward Voltage Drop per element at 3.0A	V_F	1.0							V
Maximum DC Reverse Current at Rated @ T_A = 25°C DC Blocking Voltage, per element @ T_A = 100°C	I_R	10 1.0							μA mA
Maximum Thermal Resistance (Note 1)	$R_{\theta JC}$	4.7							°C/W
Operating Temperature Range	T_J	-55 to +125							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

Notes: 1. Thermal Resistance junction to case per diode

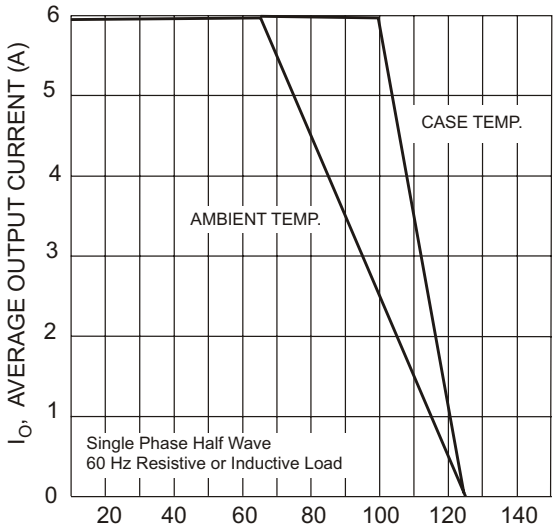


Fig. 1 Forward Current Derating Curve

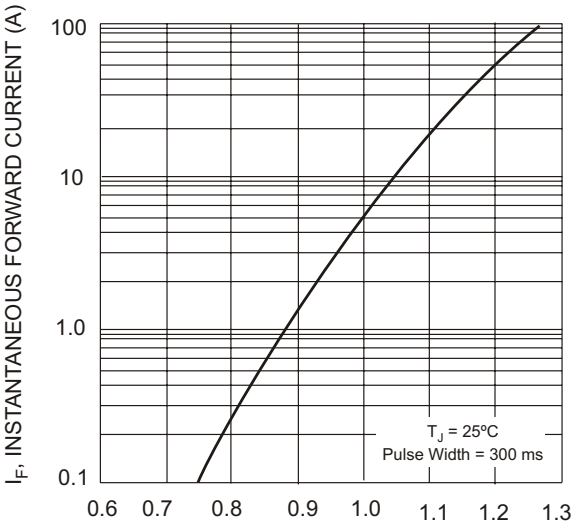


Fig. 2 Typical Forward Characteristics

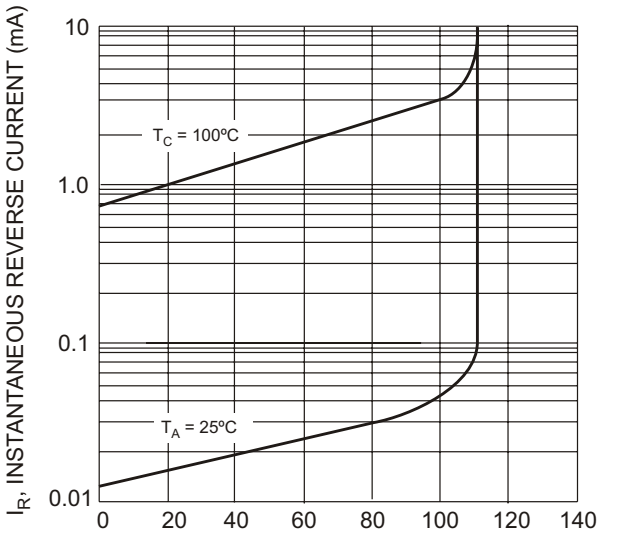


Fig. 3 Typical Reverse Characteristics

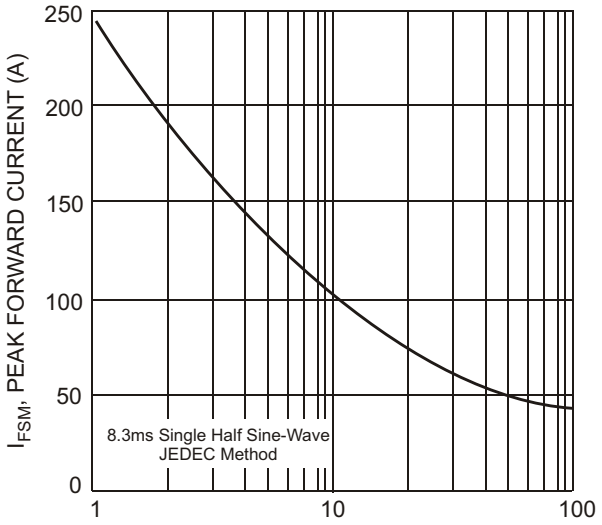


Fig. 4 Max Non-Repetitive Peak Forward Surge Current

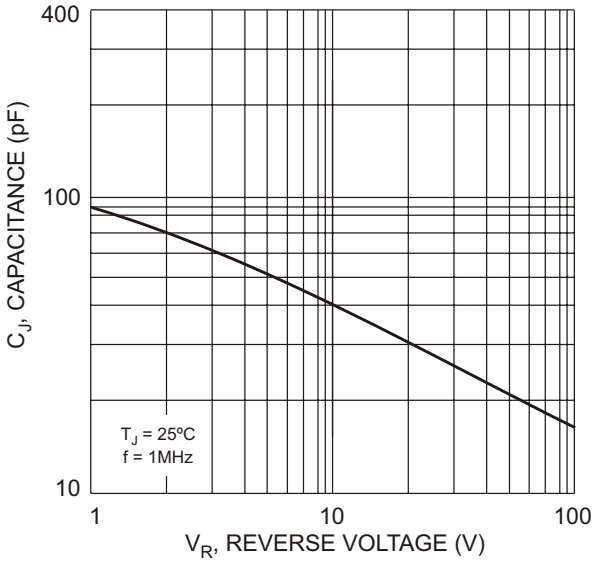


Fig. 5 Typical Junction Capacitance Per Element