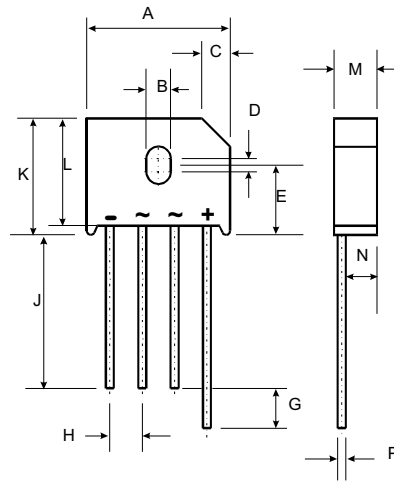


### Features

- 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

### 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



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		

### 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	V <sub>RRM</sub>	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
Maximum Average Forward Current @ T <sub>C</sub> = 100°C @ T <sub>A</sub> = 40°C	I <sub>(AV)</sub>	6.0							A
Peak Forward Surge current, 8.3 ms half sine-wave superimposed on rated load	I <sub>FSM</sub>	250							A
Maximum DC Forward Voltage Drop per element at 3.0A	V <sub>F</sub>	1.0							V
Maximum DC Reverse Current at Rated DC Blocking Voltage, per element @ T <sub>A</sub> = 25°C @ T <sub>A</sub> = 100°C	I <sub>R</sub>	10 1.0							μA mA
Maximum Thermal Resistance (Note 1)	R <sub>θJC</sub>	4.7							°C/W
Operating Temperature Range	T <sub>J</sub>	-55 to +125							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150							°C

Notes: 1. Thermal Resistance junction to case per diode

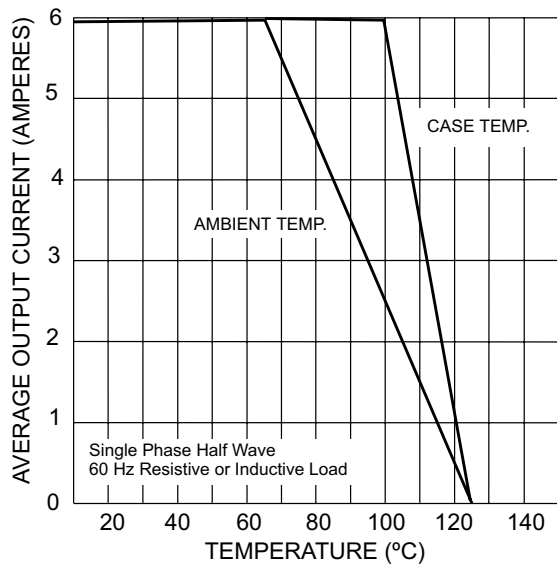


Fig. 1 Forward Current Derating Curve

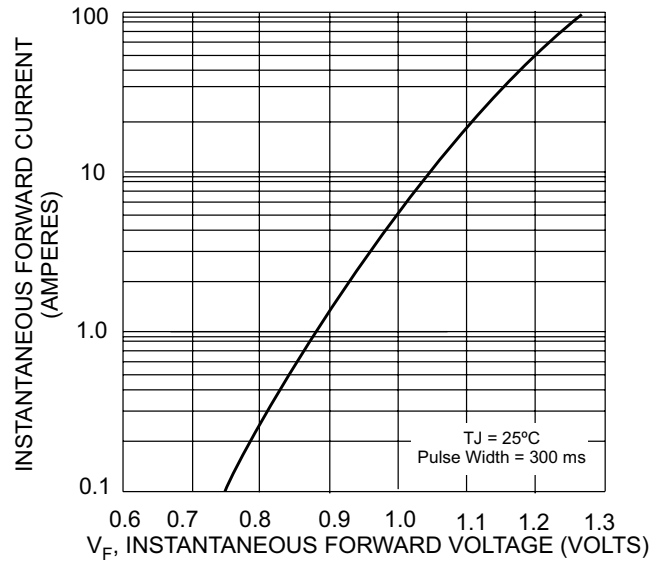


Fig. 2 Typical Forward Characteristics

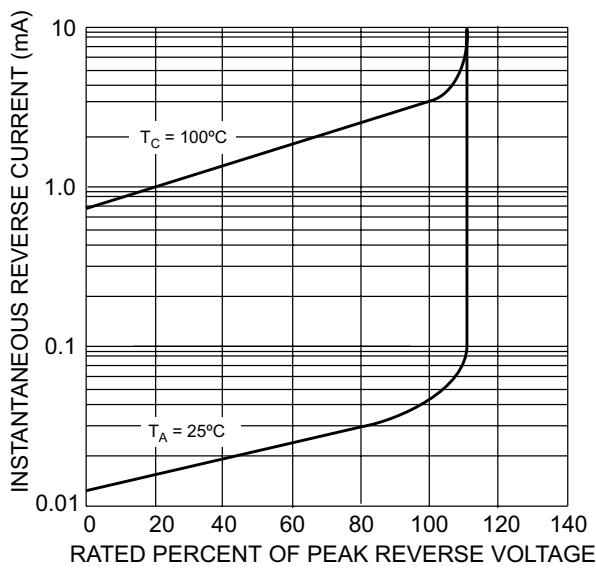


Fig. 3 Typical Reverse Characteristics

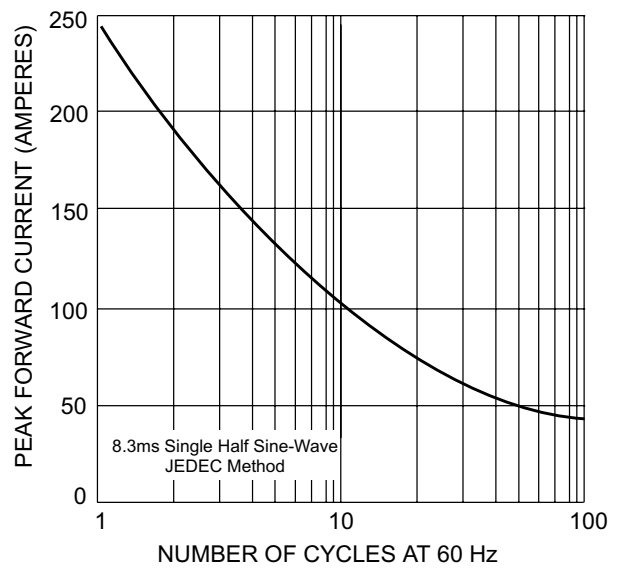


Fig. 4 Max Non-Repetitive Peak Fwd Surge Current

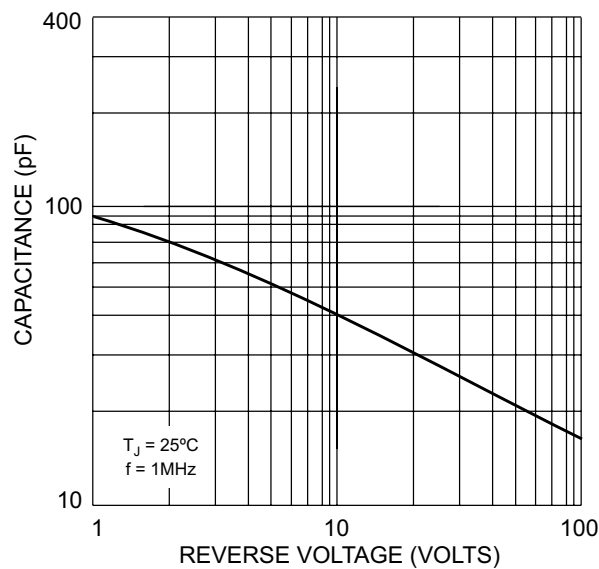


Fig. 5 Typical Junction Capacitance Per Element