

# RS601 THRU RS607

## SINGLE – PHASE BRIDGE RECTIFIERS

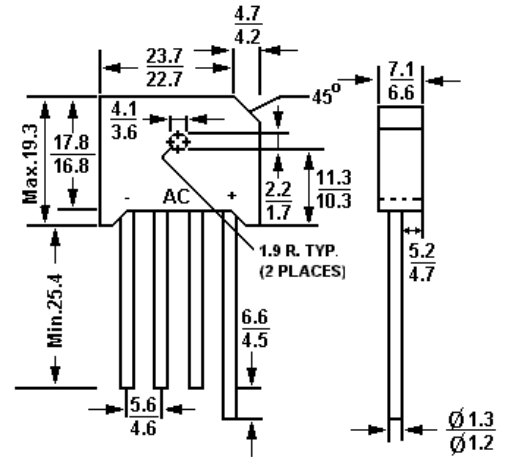
Reverse Voltage – 50 to 1000 Volts

Forward Current – 6.0 Amperes

RS-6

### Features

- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Plastic material has Underwriters Laboratory Flammability Classification 94V-0.
- Surge overload rating: 200 amperes peak.
- Mounting Position: Any

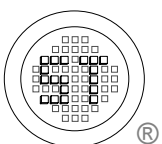


Dimensions in mm

### Absolute Maximum Ratings and Characteristics

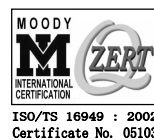
Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz, For capacitive load, derate current by 20%.

	Symbols	RS601	RS602	RS603	RS604	RS605	RS606	RS607	Units
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS bridge input voltage	$V_{RMS}$	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 rectified output current at $T_C = 100^\circ\text{C}$ , $T_A = 65^\circ\text{C}/40^\circ\text{C}/45^\circ\text{C}$	$I_{(AV)}$	6							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (MIL-STD-750 method 4066)	$I_{FSM}$	250							A
Maximum instantaneous forward voltage drop per element at 6.0A	$V_F$	1							V
Maximum DC reverse leakage at rated $T_A = 25^\circ\text{C}$	$I_R$	10							$\mu\text{A}$
DC blocking voltage per element $T_C = 100^\circ\text{C}$		200							$\mu\text{A}$
Operating and storage temperature range	$T_J, T_S$	-65 to +150							$^\circ\text{C}$



**SEMTECH ELECTRONICS LTD.**

(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002  
Certificate No. 05103



ISO 14001  
Certificate No. 7116



ISO 9001 : 2000  
Certificate No. 050-1004-000-004

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