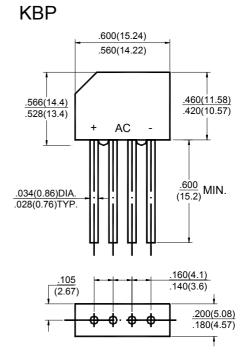
## **RS201 THRU RS207**

## SINGLE-PHASE SILICON BRIDGES Reverse Voltage – 50 to 1000 Volts Forward Current – 2.0 Amperes

#### **Features**

- Surge overload rating -50 amperes peak
- · Ideal for printed circuit board
- Plastic material has Underwriters Laboratory Flammability Classification 94V-0
- · Mounting position: Any
- · Lead: Silver plated copper lead



Dimensions in mm

### **Absolute Maximum Ratings and Characteristics**

Ratings at  $25^{\circ}$ C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz. For capacitive load, derate current by 20%

	Symbols	RS 201	RS 202	RS 203	RS 204	RS 205	RS 206	RS 207	Units
Maximum repetitive peak reverse voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS bridge input voltage	$V_{RMS}$	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	$V_{DC}$	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified output current at $T_A$ = 50 $^{\circ}C$	I <sub>(AV)</sub>	2							Amps
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load	I <sub>FSM</sub>	50							Amps
Maximum forward voltage drop per bridge element at 1A peak	V <sub>F</sub>	1							Volts
Maximum DC reverse current at rated DC blocking voltage per element		10							μA
Maximum DC reverse current at rated  DC blocking voltage per element $T_A = 100^{\circ}$ C	I <sub>R</sub>	1							mA
Operating temperature range	TJ	-55 to +125							°C
Storage temperature range	Ts	-55 to +150							°C



# SEMTECH ELECTRONICS LTD.









Dated: 06/10/2005 H