# RC201 THRU RC207

# SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

### VOLTAGE RANGE 50 to 1000 Volts CURRENT 2.0 Amperes

#### **FEATURES**

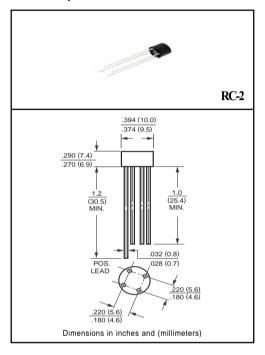
- \* Reverse voltage to 1000v
- \* Surge overload ratings to 50 amperes peak
- \* Good for printed circuit board assembly
- \* Mounting position: Any
- \* Weight: 1.88 grams
- \* Silver-plated copper leads

#### **MECHANICAL DATA**

- \* UL listed the recognized component directory, file #E94233
- \* Epoxy: Device has UL flammability classification 94V-O

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



#### MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	RC201	RC202	RC203	RC204	RC205	RC206	RC207	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at TA = 25°C	lo	2.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	60							Amps
Operating Temperature Range	TJ	-55 to + 125							۰C
Storage Temperature Range	Тѕтс	-55 to + 150							۰C

#### ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS		SYMBOL	RC201	RC202	RC203	RC204	RC205	RC206	RC207	UNITS
Maximum Forward Voltage Drop per Bridge Element at 2.0A DC		VF	1.1							Volts
Maximum Reverse Current at Rated	@TA = 25°C	lo.	10							uAmps
DC Blocking Voltage per element	@Ta = 100°C	IR IR				1				mAmps

## RATING AND CHARACTERISTIC CURVES (RC201 THRU RC207)

FIG. 1 - MAXIMUM FORWARD SURGE CURRENT 60 PEAK FORWARD SURGE CURRENT, (A) 50 (JEDED Method) 40 30 20 0 2 6 810 20 40 60 100 NUMBER OF CYCLES AT 60Hz

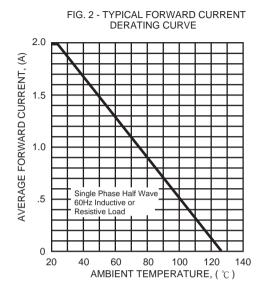


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS 10 INSTANTANEOUS REVERSE CURRENT, (uA) 6 4 2 1.0 .6 .4 .2 .1 .06 .04 TJ = 25°C .02 .01 0 20 40 80 100 120 60 PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)

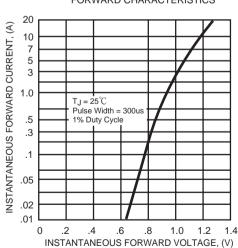


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS