RECTRON SEMICONDUCTOR
TECHNICAL SPECIFICATION

RC201 THRU RC207

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER
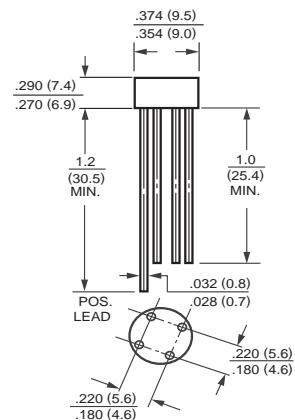
VOLTAGE 50 to 1000 Volts CURRENT 2.0 Amperes

FEATURES
* Reverse voltage to 600v
* 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%.

RC-2

.374 (9.5)
.354 (9.0)

.290 (7.4)
.270 (6.9)

$\frac{1.2}{(30.5)}$ MIN.

$\frac{1.0}{(25.4)}$ MIN.

POS. LEAD

.032 (0.8)
.028 (0.7)

.220 (5.6)
.180 (4.6)

.220 (5.6)
.180 (4.6)

Dimensions in inches and (millimeters)

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

RATINGS	SYMBOL	RC201	RC202	RC203	RC204	RC205	RC206	RC207	UNITS
Maximum Recurrent 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 Output Current at T_A = 25°C	I_O				2.0				Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}				50				Amps
Typical Current Squared Time	I^2t				10.3				A^2/Sec
Operating Temperature Range	T_J				-55 to + 150				^{0}C
Storage Temperature Range	T_{STG}				-55 to + 150				^{0}C

ELECTRICAL CHARACTERISTICS (At T_A = 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		V_F				1.05				Volts
Maximum Reverse Current at Rated DC Blocking Voltage per element	@T_A = 25°C	I_R				0.2				uAmps
	@T_A = 125°C					25				uAmps

NOTES : 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted.
2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".
3. Equivalent to Vishay's GBU6 Series.

RATING AND CHARACTERISTIC CURVES(RC201 THRU RC207)
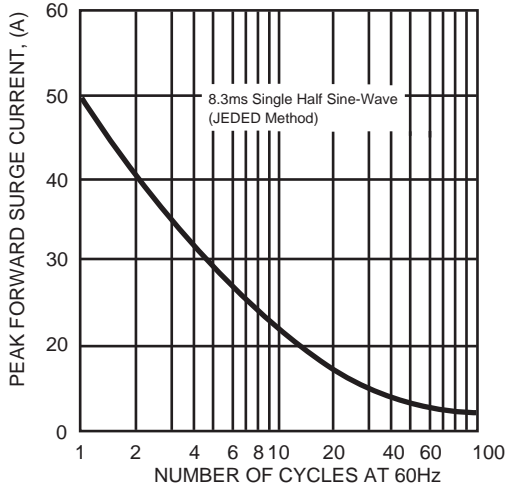
FIG. 1 - MAXIMUM FORWARD SURGE CURRENT
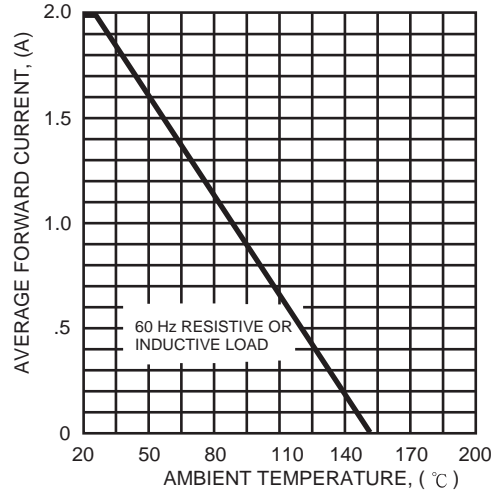

FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE
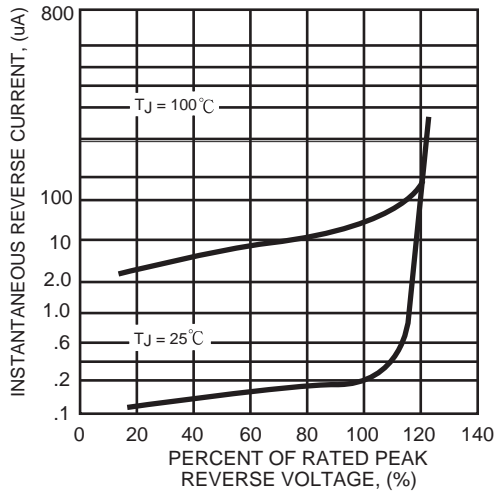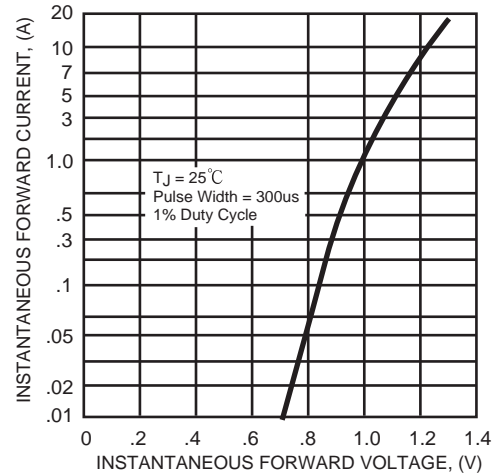

FIG. 3 - MAXIMUM REVERSE CHARACTERISTICS

FIG. 4 - MAXIMUM INSTANTANEOUS FORWARD CHARACTERISTICS

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PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK   PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
RC-2	-B	600	165*252*59	347*320*271	6,000	10.30

eg(TYPE):RC207-B

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Attachment information about RC20X

1. Internal Circuit

2. Marking on the body

1-------50V	5-------600V	
2-------100V	6-------800V	
3-------200V	7-----1000V	
4-------400V		
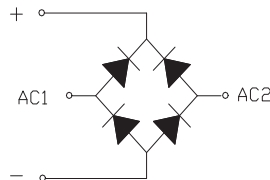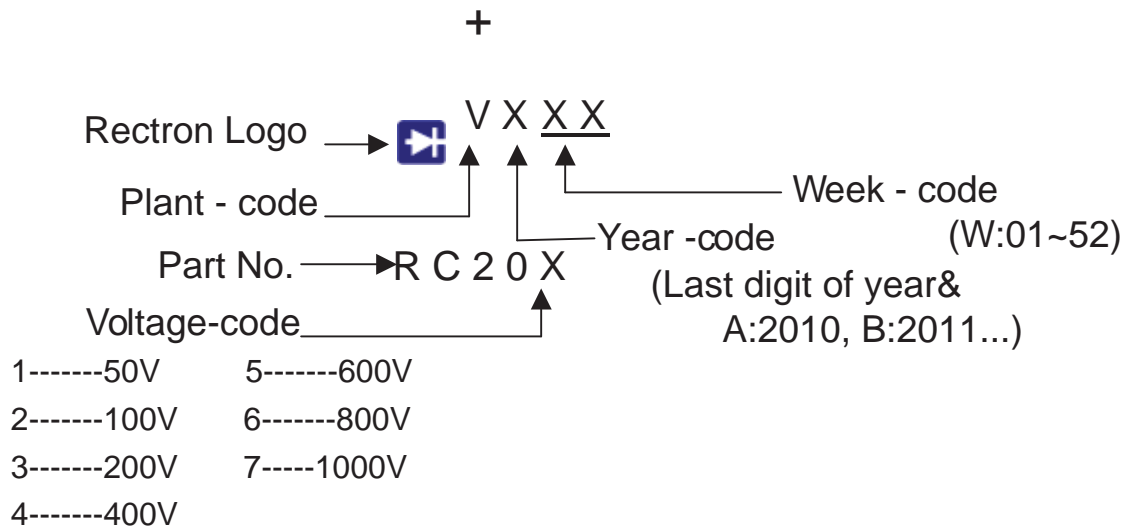
3. Items marked on the innerbox and carton

3.1 On the box (for–B)

        CUSTOMER

        TYPE

        LOT NO.

        QUANTITY

        Q.A.

        DATE

3.2 On the carton

        CUSTOMER

        TYPE

        QUANTITY

        LOT NO.

        REMARK

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