



**SINGLE-PHASE GLASS PASSIVATED  
SILICON BRIDGE RECTIFIER**

**VOLTAGE 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**

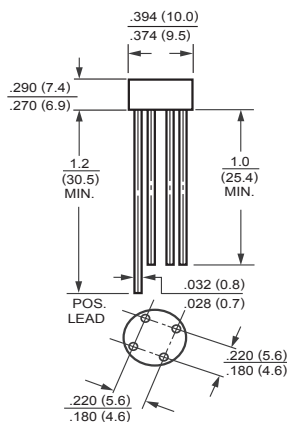
- \* UL listed the recognized component directory, file #E94233
- \* Epoxy: Device has UL flammability classification 94V-O

**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%.



RC-2



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

RATINGS	SYMBOL	RC207	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	1000	Volts
Maximum RMS Bridge Input Voltage	VRMS	700	Volts
Maximum DC Blocking Voltage	VDC	1000	Volts
Maximum Average Forward Output Current at TA = 25°C	Io	2.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	50	Amps
Operating Temperature Range	TJ	-55 to + 150	°C
Storage Temperature Range	TSTG	-55 to + 150	°C

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

CHARACTERISTICS	SYMBOL	RC207	UNITS
Maximum Forward Voltage Drop per Bridge Element at 2.0A DC	VF	1.1	Volts
Maximum Reverse Current at Rated DC Blocking Voltage per element	@TA = 25°C	5.0	uAmps
	@TA = 125°C	0.5	mAmps

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 ( RC207 )

FIG. 1 - MAXIMUM FORWARD SURGE CURRENT

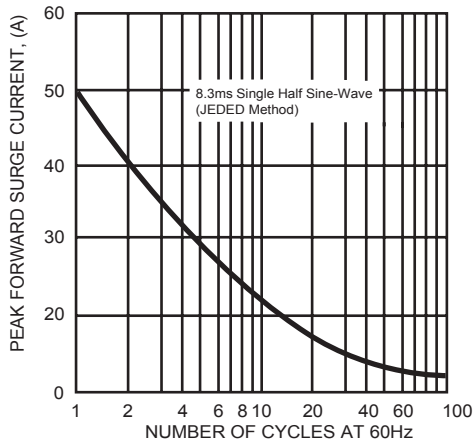


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

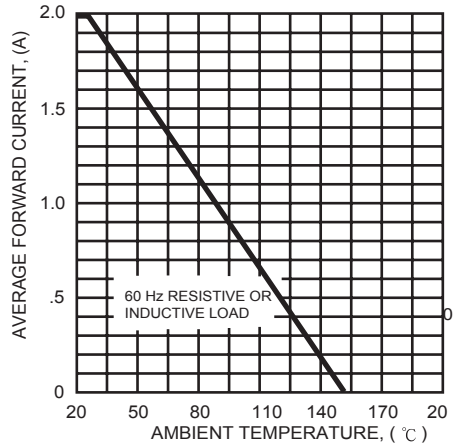


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

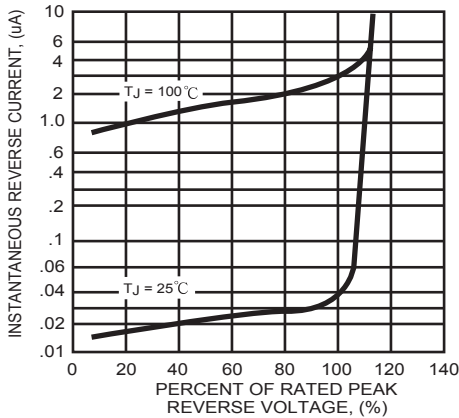


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

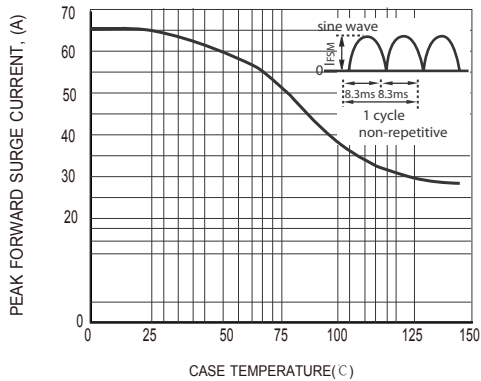
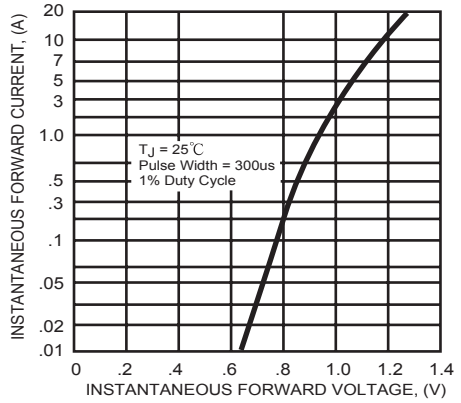


FIG.5 FORWARD SURGE CURRENT CAPABILITY & CASE TEMPERATURE

## PACKAGING OF DIODE AND BRIDGE RECTIFIERS

### BULK PACK

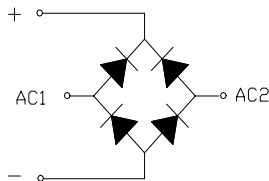
PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
RC-2	-B	600	165*252*59	347*320*271	6,000	10.30



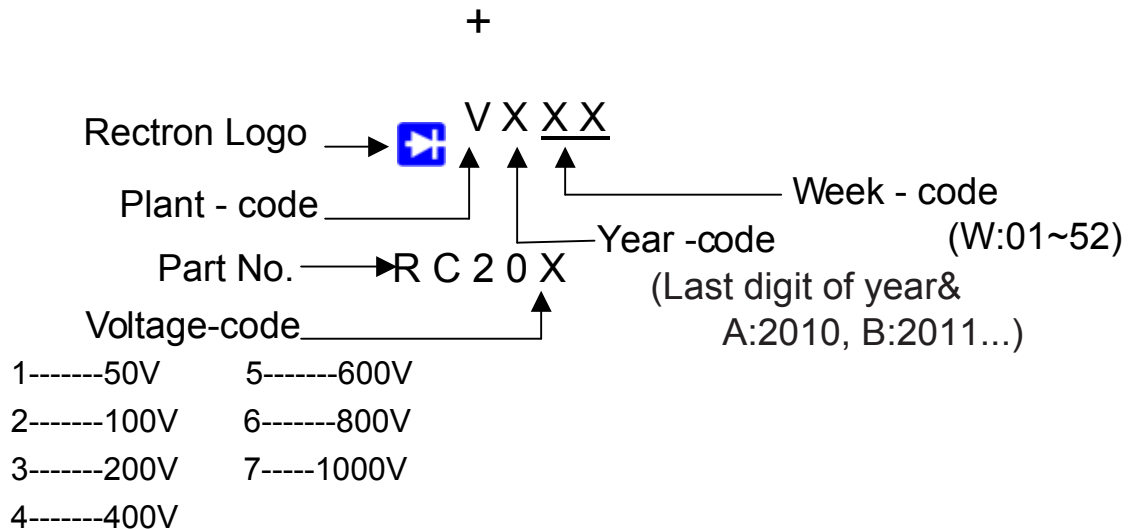
# RECTRON

## Attachment information about RC207

### 1. Internal Circuit



### 2. Marking on the body



### 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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