RECTRON SEMICONDUCTOR
TECHNICAL SPECIFICATION

RC207

SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE1000 Volts CURRENT 2.0 Amperes

FEATURES

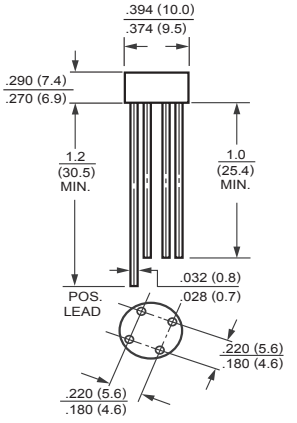
* Reverse voltage to 1000v
* Surge overload ratings to 50 amperes peak
* Good for printed circuit board assembly
* Mounting position: Any
* Weight: 1.88 grams
* Silver-plated copper leads

MECHANICAL DA TA

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



RC-2



Dimensions in inches and (millimeters)

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 T_A = 25°C unless otherwise noted)

RATINGS	SYMBOL	RC207	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	1000	Volts
Maximum RMS Bridge Input Voltage	V_{RMS}	700	Volts
Maximum DC Blocking Voltage	V_{DC}	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
Operating Temperature Range	T_J	-55 to + 150	°C
Storage Temperature Range	T_{STG}	-55 to + 150	°C

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

CHARACTERISTICS		SYMBOL	RC207	UNITS
Maximum Forward Voltage Drop per Bridge Element at 2.0A DC		V_F	1.1	Volts
Maximum Reverse Current at Rated DC Blocking Voltage per element	@T_A = 25°C	I_R	5.0	uAmps
	@T_A = 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.

2012-11
REV:A

RATING AND CHARACTERISTIC CURVES (RC207)

FIG. 1 - MAXIMUM FORWARD SURGE CURRENT

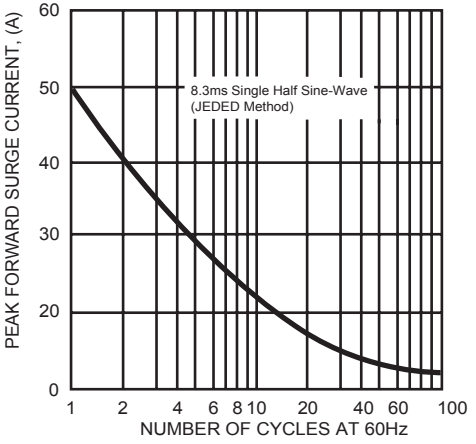


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

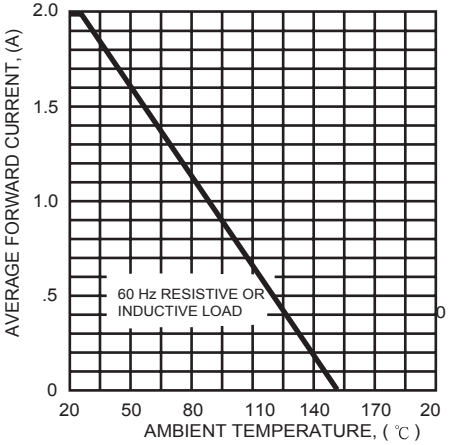


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

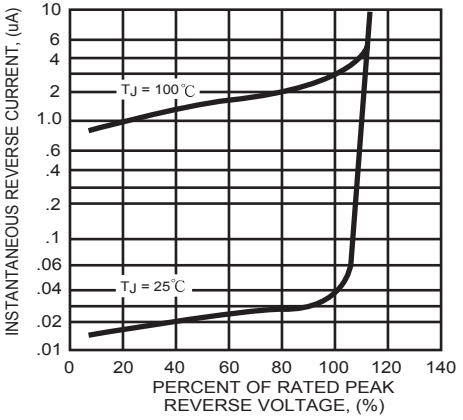
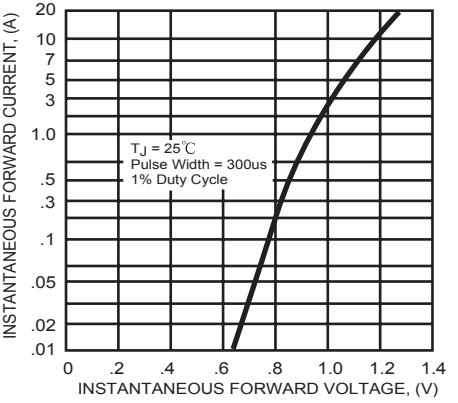


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



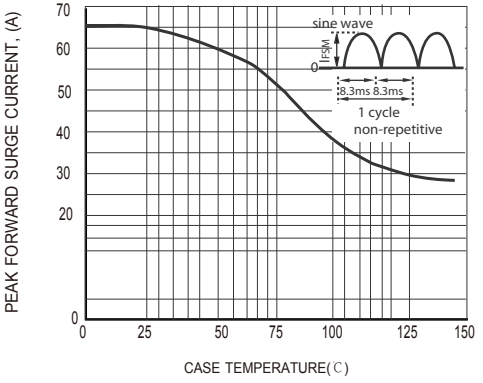


FIG.5 FORWARD SURGE CURRENT CAPABILITY & CASE TEMPERATURE

PACKAGING OF DIODE AND BRIDGE RECTIFIERS

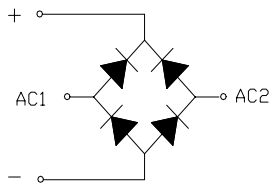
BULK PACK

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

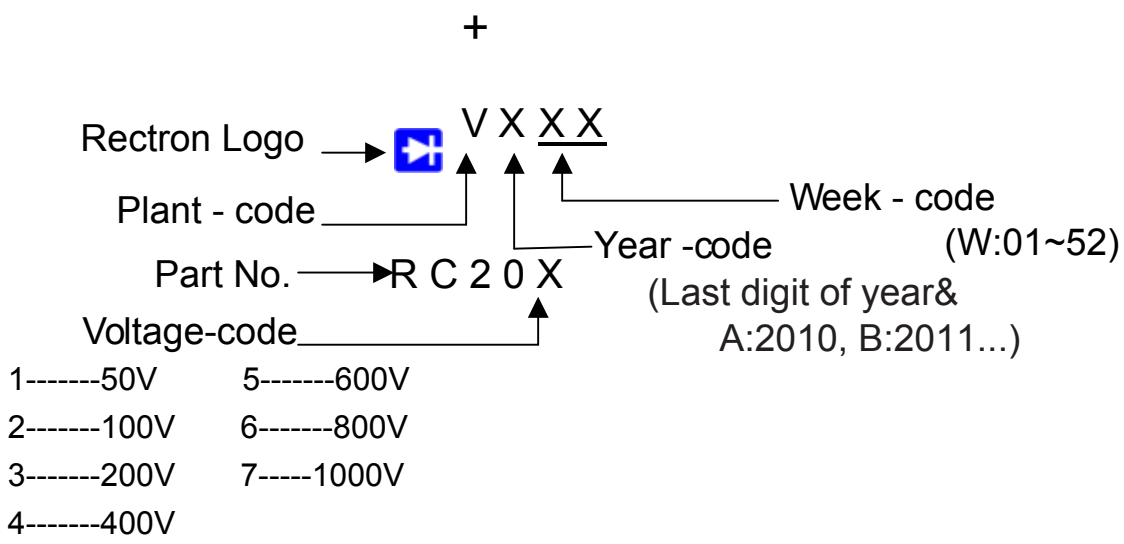
RECTRON

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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