

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

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

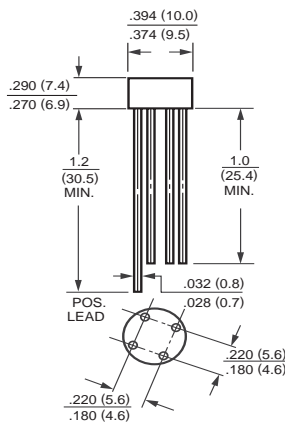
**FEATURES**

- \* 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

**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 TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	RC201	RC202	RC203	RC204	RC205	RC206	RC207	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at TA = 25°C	I <sub>O</sub>	2.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	50							Amps
Typical Thermal Resistance from junction to ambient	R θ J A	40							°C/W
Typical Thermal Resistance from junction to case	R θ J C	12							
Operating Temperature Range	T <sub>J</sub>	-55 to + 150							°C
Storage Temperature Range	T <sub>STG</sub>	-55 to + 150							°C

**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 DC Blocking Voltage per element	IR	5.0							uAmps
		0.5							mAmps

Note: 1. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

2005-3

REV:A

# RATING AND CHARACTERISTIC CURVES ( RC201 THRU RC207 )

FIG. 1 - MAXIMUM FORWARD SURGE CURRENT

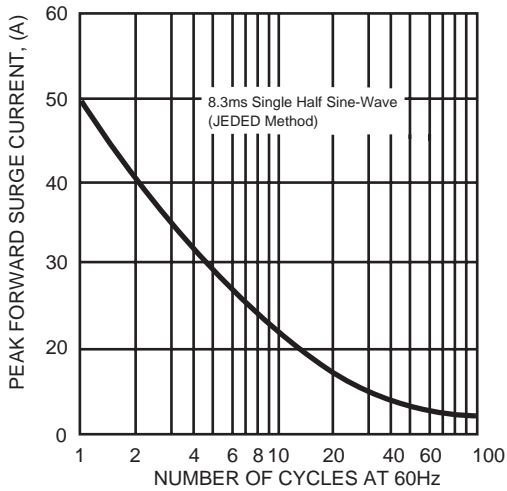


FIG. 2 - TYPICAL FORWARD CURRENT DERATING CURVE

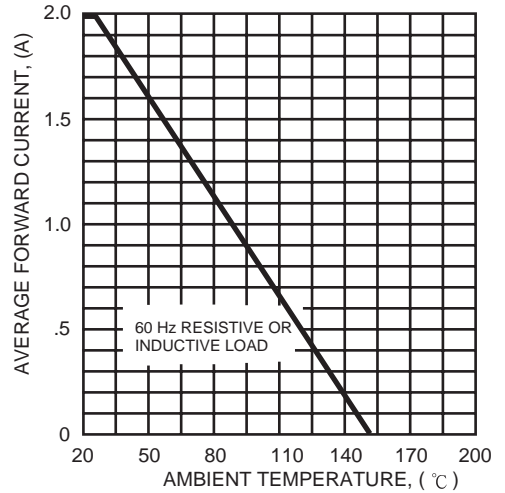


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

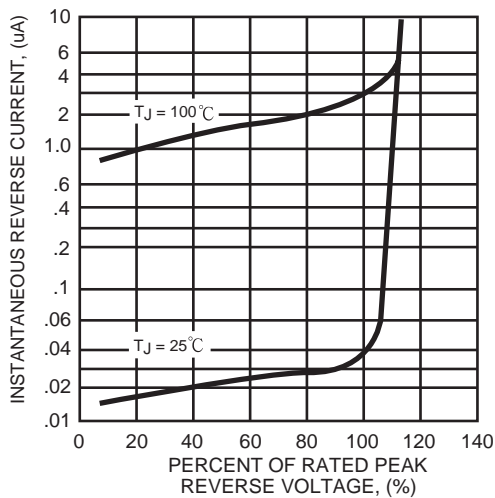


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

