

RS201 THRU RS207

# SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 2.0 Amperes

#### **FEATURES**

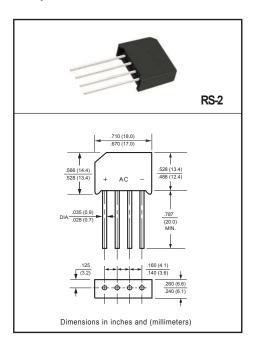
- \* Ideal for printed circuit board
- \* Surge overload rating: 50 amperes peak
- \* Weight: 2.74 grams
- \* Mounting position: Any

#### **MECHANICAL DATA**

- \* Epoxy: Device has UL flammability classification 94V-O
- \* UL listed the recognized component directory,file #94233

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25  $^{\Box}$ 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 (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	RS201	RS202	RS203	RS204	RS205	RS206	RS207	UNITS
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS 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 Rectified Current at T <sub>A</sub> = 50°C	I <sub>0</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 (Note 1)	$R_{\theta JC}$	15							°C/W
	R <sub>θ JA</sub>	40							
Typical Junction Capacitance (Note 3)	CJ	15						pF	
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to + 150						°C	

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

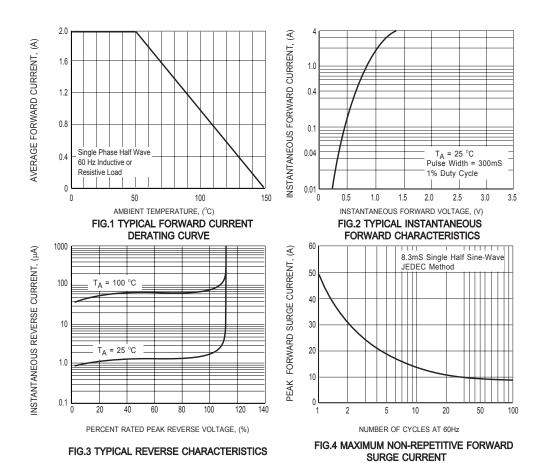
CHARACTERISTICS		SYMBOL	RS201	RS202	RS203	RS204	RS205	RS206	RS207	UNITS
Maximum Instantaneous Forward Voltage at 2.0A DC		V <sub>F</sub>	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C	- I <sub>R</sub>	5.0							μAmps
	@T <sub>A</sub> = 100°C		100							

 ${\tt NOTES: 1.Thermal\ Resistance: Heat-sink\ case\ mounted\ or\ if\ \ PCB\ mounted}.$ 

- 2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".
- 3. Measureed at 1MHz and applied reverse voltage of 4.0 volts.

2007-3

## RATING AND CHARACTERISTICS CURVES (RS201 THRU RS207)





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