

**RS401L** THRU **RS407L** 

## SINGLE-PHASE GLASS PASSIVATED SILICON BRIDGE RECTIFIER

**VOLTAGE RANGE 50 to 1000 Volts CURRENT 4.0 Amperes** 

### **FEATURES**

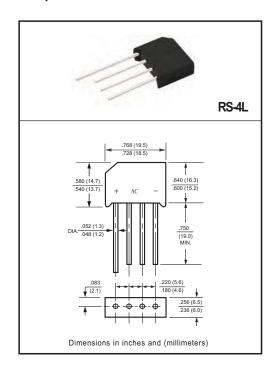
- \* Ideal for printed circuit board
- \* Surge overload rating: 150 amperes peak
- \* Mounting position: Any
- \* Weight: 4.8 grams
- \* Molded structure

#### **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  $^{\circ}\text{C}$  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	RS401L	RS402L	RS403L	RS404L	RS405L	RS406L	RS407L	UNITS
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	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	lo	4.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	150					Amps		
Typical Current Squarad Time	l <sup>2</sup> t	93.37					A <sup>2</sup> /Sec		
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	10							°C/W
Typical Thermal Nesistance (Note 1)	$R_{\theta JA}$	28							0/11
Typical Junction Capacitance (Note 3)	СЈ	40					pF		
Operating and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to + 150					°C		

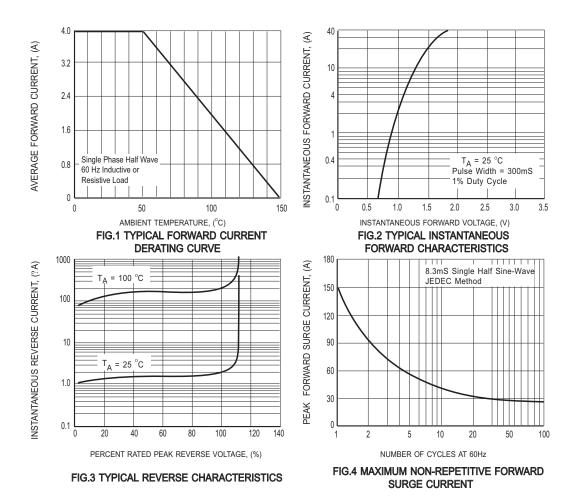
#### ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

CHARACTERIST	SYMBOL	RS401L	RS402L	RS403L	RS404L	RS405L	RS406L	RS407L	UNITS	
Maximum Instantaneous Forward Vo	V <sub>F</sub>	1.1					Volts			
Maximum DC Reverse Current	@T <sub>A</sub> = 25°C	ln.	2.0							
at Rated DC Blocking Voltage	@T <sub>A</sub> = 100°C	IR IR	200						uAmps	

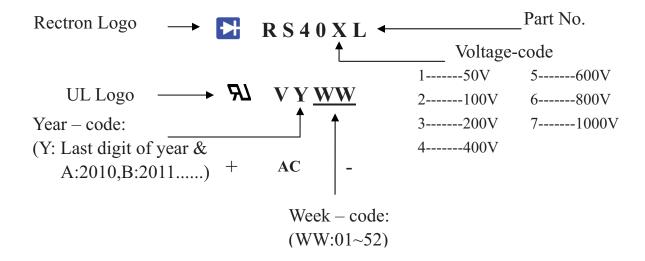
NOTES: 1.Thermal Resistance: Heat-sink case mounted or if PCB mounted.
2. "Fully ROHS compliant", "100% Sn plating (Pb-free)".
3. Measureed at 1MHz and applied reverse voltage of 4.0 volts.

2016-09

## RATING AND CHARACTERISTICS CURVES (RS401L THRU RS407L)



## **Marking Description**





# PACKAGING OF DIODE AND BRIDGE RECTIFIERS

### BULK PACK

PACKAGE	PACKING CODE EA PER BOX		INNER BOX SIZE (mm)			GROSS WEIGHT(Kg)	
RS-4L	-В	300	230*162*52	502*251*126	1,800	11.3	

### TUBE PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	WEIGHT(Kg)
RS-4L	-C	750	540*118*118	560*259*144	1,500	12.1



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