

RL801S THRU RL806S

## GLASS PASSIVATED SILICON RECTIFIER

# **VOLTAGE RANGE 50 to 800 Volts CURRENT 8.0 Amperes**

### **FEATURES**

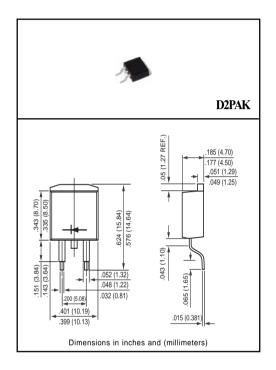
- \* Low leakage
- \* Low forward voltage drop
- \* High current capability
- \* High surge capability
- \* High reliability

### **MECHANICAL DATA**

- \* Case: D2PAK molded plastic
- \* Epoxy: Device has UL flammability classification 94V-O
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting position: Any \* Weight: 2.2 grams \* Polarity: As marked

#### 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	RL801S	RL802S	RL803S	RL804S	RL805S	RL806S	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	Volts
Maximum Average Forward Rectified Current Tc = 100°C (Note 1)	lo	8.0						Amps
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	200						Amps
Typical Thermal Resistance	RθJC	3.6						°C/W
Typical Junction Capacitance (Note 2)	CJ	40					pF	
Operating and Storage Temperature Range	TJ, TSTG	-65 to + 150						٥C

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

CHARACTERISTICS		SYMBOL	RL801S	RL802S	RL803S	RL804S	RL805S	RL8506S	UNITS
Maximum Instantaneous Forward Voltage at 8.0A DC		VF	1.1					Volts	
Maximum DC Reverse Current	@Tc = 25°C	la.	10						uAmps
at Rated DC Blocking Voltage	@Tc = 100°C	lR	100						

NOTES: 1.Case Temperature Measured at Metal Tab.

2.Measured at 1 MHz and applied reverse voltage of 4.0 volts.

3.Suffix " R " = Common Anode.

# RATING AND CHARACTERISTIC CURVES (RL801S THRU RL806S)

