



### **GLASS PASSIVATED SILICON RECTIFIER**

VOLTAGE RANGE 50 to 1000 Volts CURRENT 8.0 Amperes

#### FEATURES

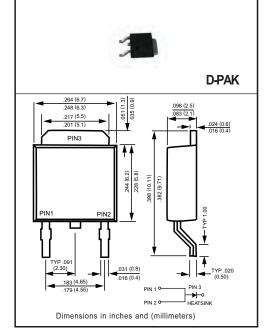
- \* Low leakage
- \* Low forward voltage drop
- \* High current capability
- \* High surge capability
- \* High reliability

### **MECHANICAL DATA**

- \* Case: D-PAK molded plastic
- \* Epoxy: Device has UL flammability classification 94V-O

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25 °C ambient temperature unless otherwise specified.

- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting position: Any
- \* Weight: 0.33 grams



For capacitive load, derate current by 20%.

Single phase, half wave, 60 Hz, resistive or inductive load.

RATINGS	SYMBOL	RL801K	RL802K	RL803K	RL804K	RL805K	RL806K	RL807K	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	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 $T_C$ = 100 °C	lo	8.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	125						Amps	
Typical Current Squarad Time	l <sup>2</sup> t	64.84							A <sup>2</sup> /Sec
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	3.6							
	$R_{\theta JA}$	25							°C/W
Typical Junction Capacitance (Note 2) CJ			40						pF
Operating and Storage Temperature Range T <sub>JL</sub> T <sub>STG</sub> -55 to + 150						٥C			

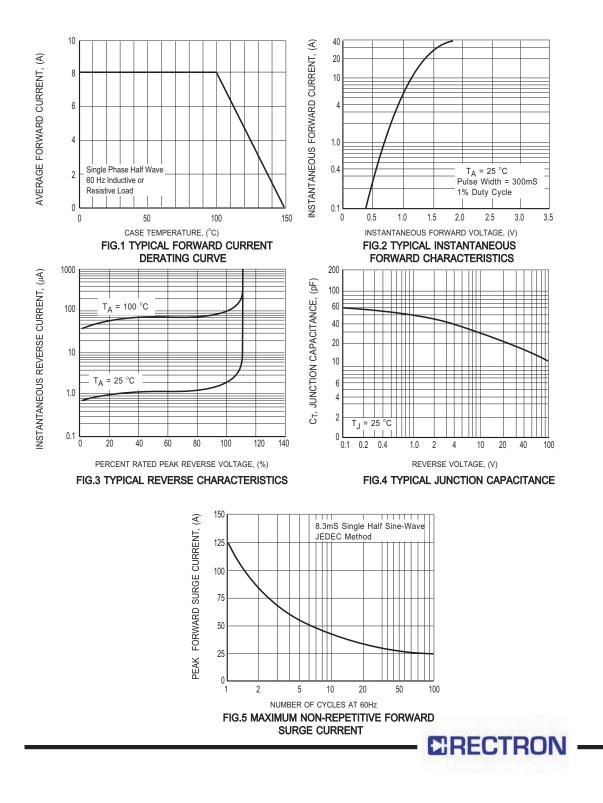
ELECTRICAL CHARACTERISTICS (@TA=25 °C unless otherwise noted)

CHARACTERISTI	SYMBOL	RL801K	RL802K	RL803K	RL804K	RL805K	RL806K	RL807K	UNITS	
Maximum Instantaneous Forward Voltage at 8.0A DC		VF	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C	- I <sub>R</sub>				2				
	@T <sub>A</sub> = 100°C		100						uAmps	

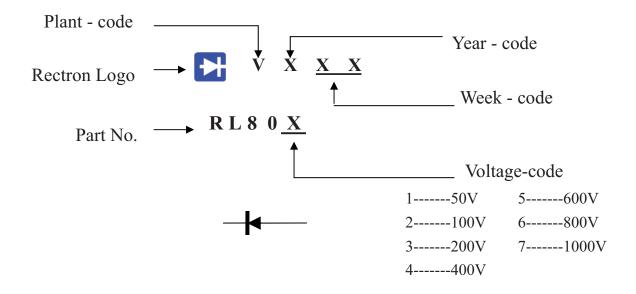
NOTES: 1. Thermal Resistance : Heat-sink case mounted or if PCB mounted. 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts. 3. "ROHS compliant" 4. Suffix "R" for Reverse Polarity. 5. Suffix "S" for D2-PAK Pkg.

2021-08 REV:B





## Marking on the body



# PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
DPAK	-W/-C	2,500	2,500	338*338*40	360*355*360	20,000	



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