

RL801K THRU **RL807K**

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

MEW REM D-PAK .228 (5.8) 398 (10.11) 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 (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	RL801K	RL802K	RL803K	RL804K	RL805K	RL806K	RL807K	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T _C = 100 °C	Io	8.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	125							Amps
Typical Thermal Resistance (Note 1)	R _θ JC	3.6							°C/W
	$R_{\theta JA}$	25							
Typical Junction Capacitance (Note 2)	CJ	40						pF	
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150						٥C	

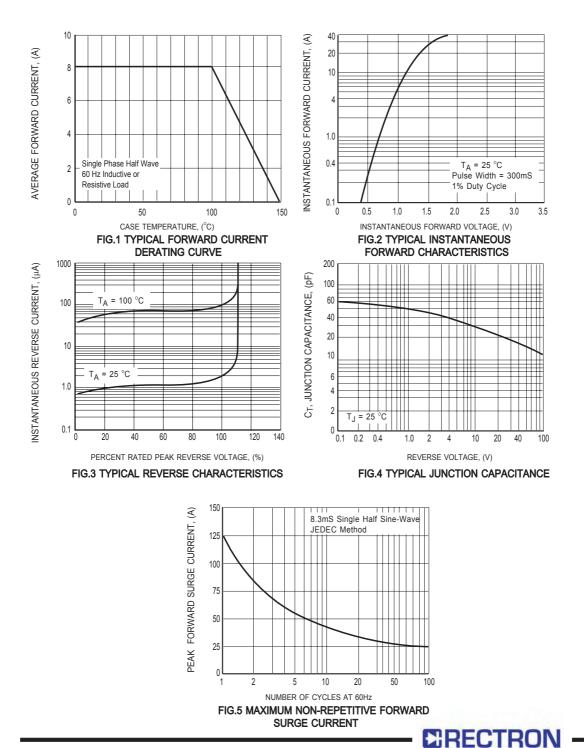
ELECTRICAL CHARACTERISTICS (@T_A=25 °C unless otherwise noted)

CHARACTERISTICS		SYMBOL	RL801K	RL802K	RL803K	RL804K	RL805K	RL806K	RL807K	UNITS
Maximum Instantaneous Forward Voltage at 8.0A DC		V _F	1.1						Volts	
	@T _A = 25°C	- I _R	2							
	@T _A = 100°C					100				uAmps

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. "Fully ROHS compliant", "100% Sn plating (Pb-free)".
4. Suffix "R" for Reverse Polarity.
5. Suffix "S" for D2-PAK Pkg. NOTES :

2008-08

RATING AND CHARACTERISTICS CURVES (RL801K THRU RL807K)



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