



GLASS PASSIVATED SILICON RECTIFIER

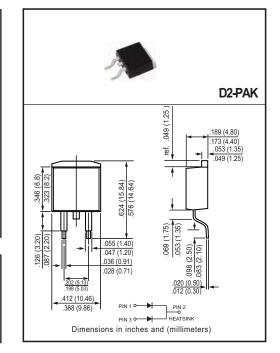
VOLTAGE RANGE 50 to 1000 Volts CURRENT 8.0 Amperes

FEATURES

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

MECHANICAL DATA

- * Case: D2-PAK molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any



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%.

RATINGS	SYMBOL	RL801CS	RL802CS	RL803CS	RL804CS	RL805CS	RL801CS	RL807CS	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	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	lo	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 Squared Time	l ² t	² t 64.8					A ² /S		
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	3.6							
	$R_{\theta JA}$	25							
Typical Junction Capacitance (Note 2)	CJ	CJ 40					pF		
Operating and Storage Temperature Range	TJ, TSTG -55 to + 150					٥C			

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

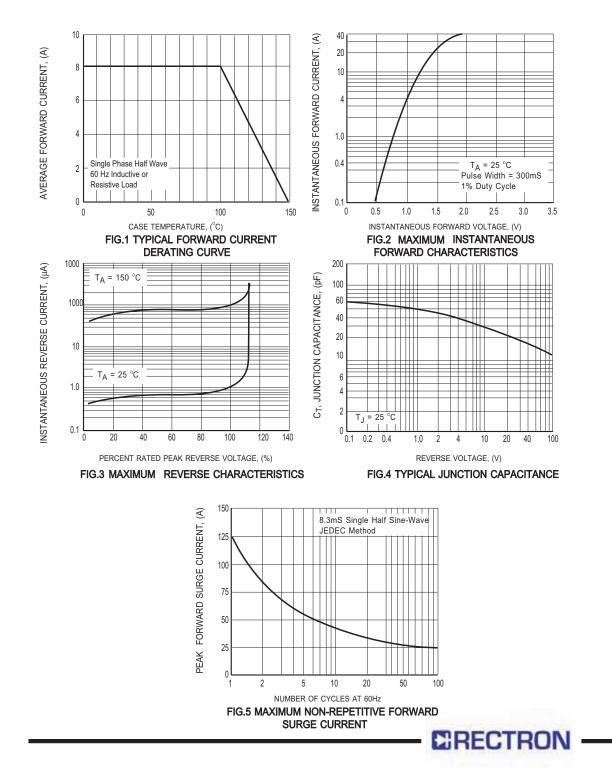
CHARACTERISTICS		SYMBOL	RL801CS	RL802CS	RL803CS	RL804CS	RL805CS	RL801CS	RL807CS	UNITS
Maximum Instantaneous Forward Voltage at 4.0A DC		VF	1.0							Volts
Maximum DC Reverse Current	@T _A = 25°C	- I _R	1.0						uAmps	
at Rated DC Blocking Voltage	@T _A = 150°C					1.0				mAmps

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.

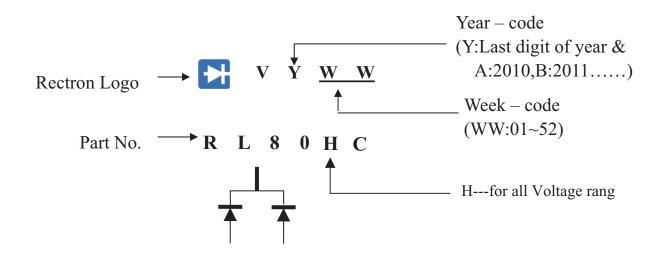
ROHS compliant".
Available in Halogen-free epoxy by adding suffix -HF after the part nbr.

2022-04 REV:A



RATING AND CHARACTERISTICS CURVES (RL801CS THRU RL807CS)

Marking Description



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

TUBE PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE (mm)	CARTON SIZE (mm)	EA PER CARTON	WEIGHT(Kg)
D2PAK	-C	2,500	340*340*30	360*340*370	25,000	13.43



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