

RL801 THRU RL807

GLASS PASSIVATED SILICON RECTIFIER

VOLTAGE RANGE 50 to 1000 Volts CURRENT 8.0 Amperes

FEATURES

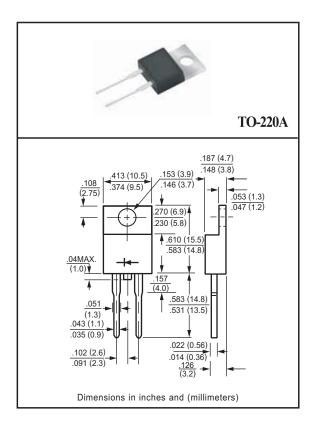
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * High surge capability
- * High reliability

MECHANICAL DATA

- * Case: TO-220 molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any* Weight: 2.24 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	RL801	RL802	RL803	RL804	RL805	RL806	RL807	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	1 0	200	400	600	800	1000	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 Current Squarad Time	l ² t	167						A ² /Sec	
Typical Thermal Resistanc	RθJC	3.6						°C/W	
Typical Junction Capacitance (Note 2)	Cı	40					pF		
Operating and Storage Temperature Range	TJ, TSTG	-65 to + 150					°C		

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

CHARACTERISTICS		SYMBOL	RL801	RL802	RL803	RL804	RL805	RL806	RL807	UNITS
Maximum Instantaneous Forward Voltage at 8.0A DC		VF	1.1							Volts
Maximum DC Reverse Current	@Tc = 25°C	lo.				10)			uAmps
at Rated DC Blocking Voltage	@Tc = 100°C	IR	100] "" "IIps	

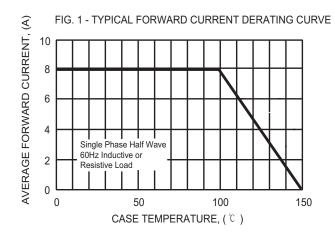
NOTES: 1.Case Temperature Measured at Metal Tab.

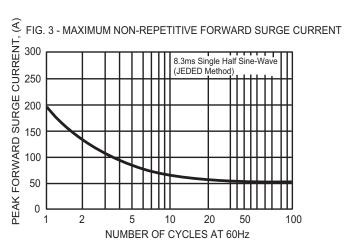
2.Measured at 1 MHz and applied reverse voltage of 4.0 volts.

3.Suffix " R " = Common Anode.

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RATING AND CHARACTERISTIC CURVES (RL801 THRU RL807)





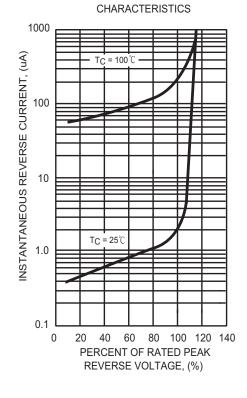
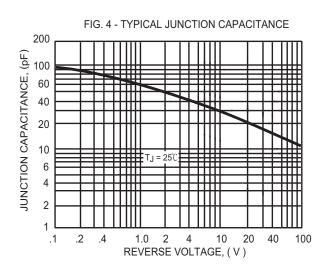
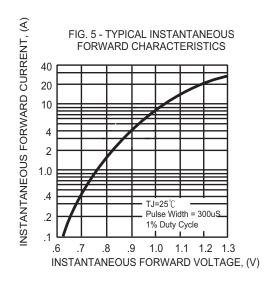


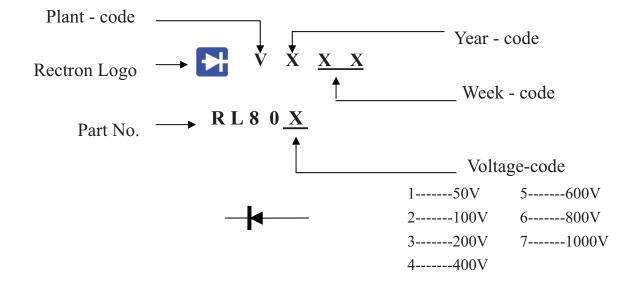
FIG. 2 - TYPICAL REVERSE







Marking on the body



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)
(I)TO-220/TO-220(A)	-C	2,000	550*140*92	572*308*120	4,000	11.80

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