



SOFT RECOVERY/FAST SWITCHING RECTIFIER

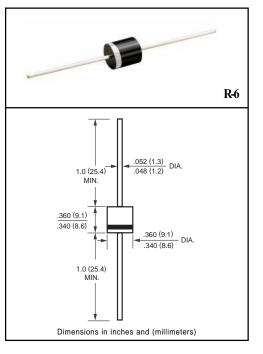
VOLTAGE RANGE 50 to 600 Volts CURRENT 5.0 Amperes

FEATURES

- * Fast switching
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * High surge capability
- * High reliability
- **MECHANICAL DATA**
- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- *Weight: 2.18 grams (Approx.)

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	RL820	RL821	RL822	RL824	RL826	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	Volts
Maximum RMS Voltage	Vrms	VRMS 35 70 140 280 42				420	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	Volts
Maximum Average Forward Rectified Current at TA = 55°C	lo	5.0					Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	300				Amps	
Typical Current Square Time I ² T 373.5				A ² S			
pical Junction Capacitance (Note 2) RθJA 10				°C/W			
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150			٥C		

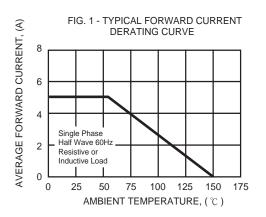
ELECTRICAL CHARACTERISTICS (At T_A = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	RL820	RL821	RL822	RL824	RL826	UNITS
Maximum Instantaneous Forward Voltage at 5.0A DC	VF	1.3					Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage TA = 25°C	IR	25				uAmps	
Maximum Reverse Recovery Time (Note 1)	trr	200				nSec	
NOTES: 1. Test Conditions: IF = 1.0A, VR = 30V.							

2. Thermal Resistance (Junction to Ambient): Vertical PC Board Mounting, 0.5" (12.7mm) Lead length.

2025-0 REV:B

RATING AND CHARACTERISTIC CURVES (RL820 THRU RL826)





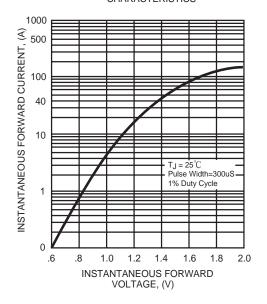


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

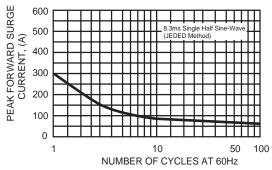
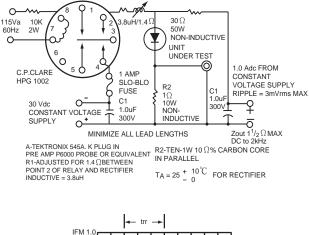
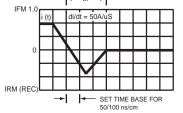


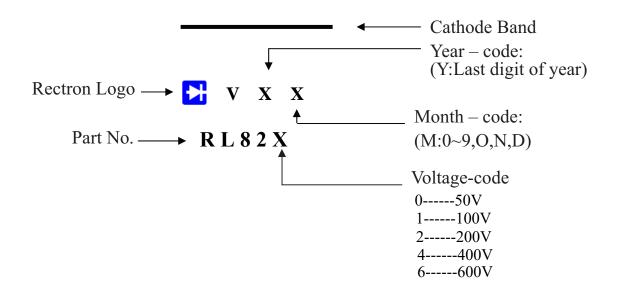
FIG. 4 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC





CRECTRON -

Marking Description



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

BULK PACK

PACKAGE	PACKING CODE	EA PER BOX	INNER BOX SIZE CARTON (mm)		EA PER CARTON	GROSS WEIGHT(Kg)	
R-6/R-7	-B	200	300*73*40	347*320*271	4,800	12.93/14.57	

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
R-6/R-7	-T	800	800	9.5	52	330	355*350*335	3,200	9.72/9.91

AMMO PACK

PACKAGE	PACKING	REEL	COMPONENT	TAPE SPACE	BOX SIZE	CARTON	CARTON	GROSS
	CODE	(EA)	SPACE(mm)	(mm)	(mm)	SIZE(mm)	(EA)	WEIGHT (Kg)
R-6/R-7	-F	300	9.5	52	255*73*100	400*268*225	3,000	8.5/8.7

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