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, 247 阳 加 R4.850

THRU

RL856

SOFT RECOVERY/FAST SWITCHING RECTIFIER

VOLTAGE RANGE 50 to 600 Volts CURRENT 3.0 Amperes

FEATURES

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

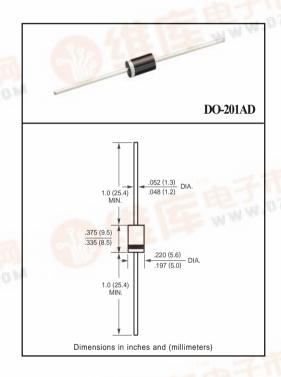
MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any * Weight: 1.20 grams

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%.



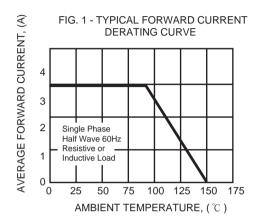
MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

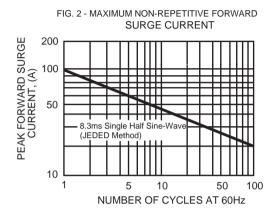
RATINGS	SYMBOL	RL850	RL851	RL852	RL854	RL856	UNITS	
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	Volts	
Maximum RMS Voltage	VRMS	35	70	140	280	420	Volts	
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	Volts	
Maximum Average Forward Rectified Current at TA = 90°C	lo	3.0						
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	100						
Maximum Reverse Recovery Current	IRR	2.0						
Typical Junction Capacitance (Note 2)	CJ	65						
Operating and Storage Temperature Range	TJ, TSTG	-65 to + 150						

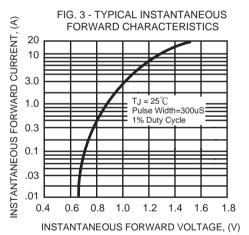
ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

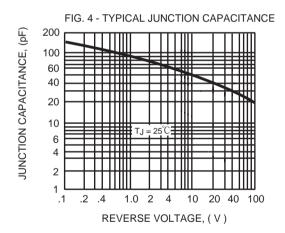
	CHARACTERISTICS	SYMBOL	RL850	RL851	RL852	RL854	RL856	UNITS
	Maximum Instantaneous Forward Voltage at 3.0A DC	VF		Volts				
3	Maximum DC Reverse Current at Rated DC Blocking Voltage TA = 25°C			uAmps				
_	maximum Full Load Reverse Current Average , Full Cycle 375" (9-6mm) lead length at TL = 100°C	lR	150	150	200	250	300	uAmps
~	Maximum Reverse Recovery Time (Note 1)	trr		nSec				

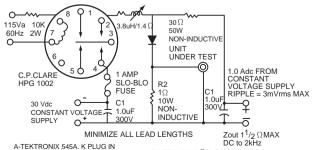
RATING AND CHARACTERISTIC CURVES (RL850 THRU RL856)









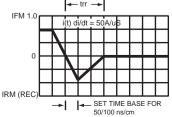


R1-ADJUSTED FOR 1.4 O BETWEEN

POINT 2 OF RELAY AND RECTIFIER

INDUCTIVE = 3.8uH

FIG. 5 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



PRE AMP P6000 PROBE OR EQUIVALENT R2-TEN-1W 10 Ω % CARBON CORE IN PARALLEL $T_A = 25 + 10^{\circ}C$ FOR RECTIFIER