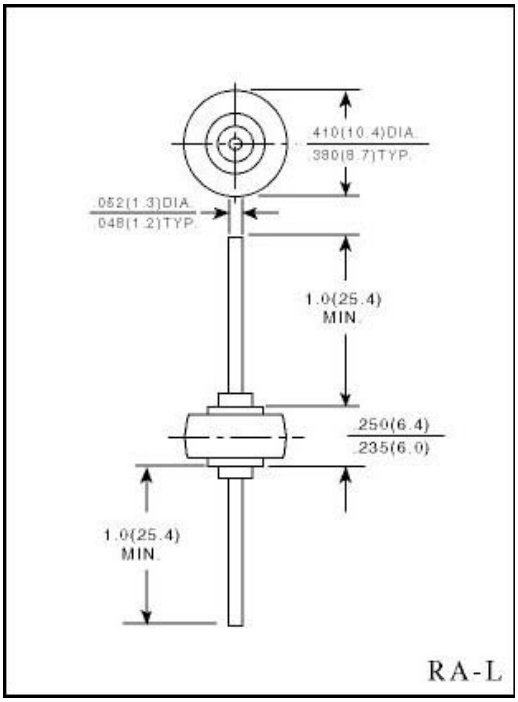
AUTOMOTIVE RECTIFIER

RL750 THRU RL7510

VOLTAGE RANGE 50 to 1000 Volts
CURRENT 6.0 Ampere

FEATURES

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



MECHANICAL DATA

- Case: transfer molded plastic
- Epoxy: UL94V - 0 rate flame retardant.
- Lead: Plated axial lead, solderable per MIL - STD - 202E method 208C
- Mounting position: Any
- Weight: 0.11 ounce, 3.0gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load derate current by 20%

	SYMBOLS	RL 750	RL 751	RL 752	RL 758	RL 7510	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	800	1000	Volts
Maximum Average Forward Rectified Current, 0.375" (9.5mm) Lead length at T_A = 60℃ (Note 1)	$I_{(AV)}$	60					Amps
Peak Forward Surge Current 8.3ms single half sine - wave superimposed on rated load (JEDEC method)	I_{FSM}	400					Amps
Maximum Instantaneous Forward Voltage at 6.0 **A / 100** A	V_F	0.90 / 1.25					Volts
Maximum DC Reverse Current at rated DC blocking voltage T_A = 25℃	I_R	25.0					μA
Typical Thermal Resistance at 0.5" (12.7) lead length (Note 1)	$R_{\theta JC}$	10					℃/W
Operating and Storage Temperature Range	T_J, T_{STG}	(-65 to +175)					℃

NOTES:

1. P.C.B. mounted

RATINGS AND CHARACTERISTIC CURVES RL750 THRU RL756

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

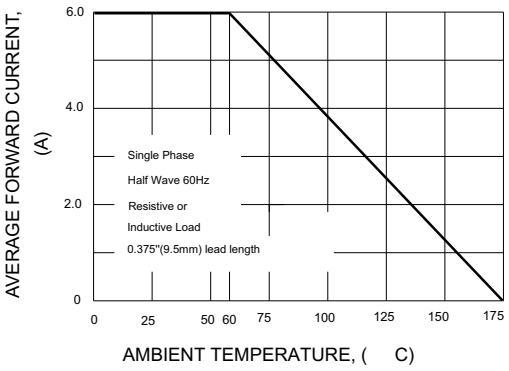


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

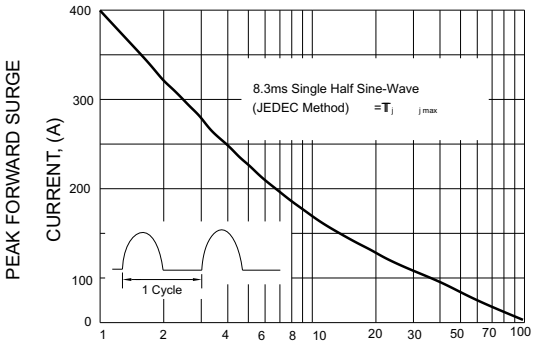


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

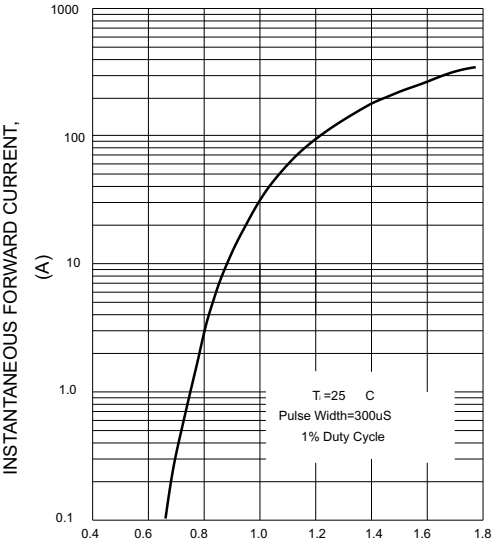


FIG.4-TYPICAL REVERSE CHARACTERISTICS

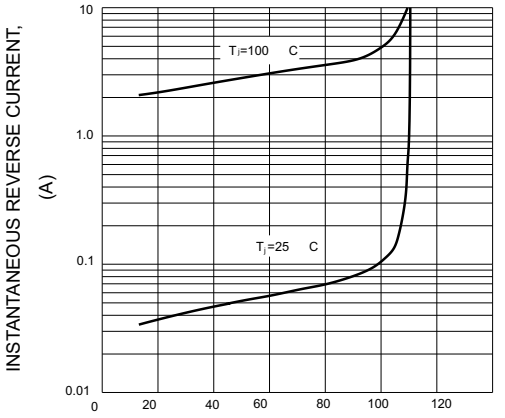


FIG.5-TYPICAL THERMAL RESISTANCE VS LEAD LENGTH