



CHENMKO ENTERPRISE CO.,LTD

SILICON RECTIFIER

VOLTAGE RANGE 50 - 600 Volts CURRENT 6.0 Amperes

**RL750PT
THRU
RL756PT**

Lead free devices

FEATURES

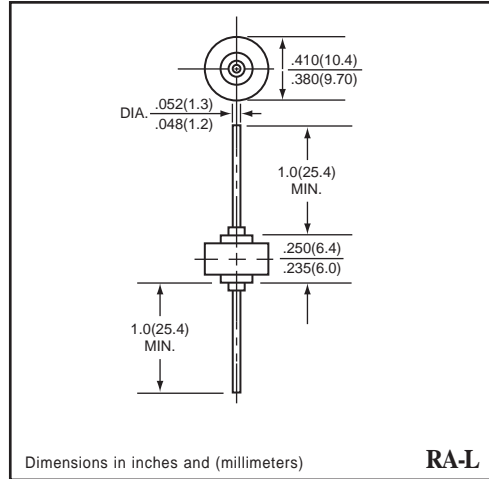
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Low cost
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * High surge current capability

MECHANICAL DATA

Case: JEDEC RA-L molded plastic
Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight: 2.50 grams



RA-L



RA-L

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	RL750PT	RL751PT	RL752PT	RL754PT	RL756PT	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	Volts
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	Volts
Maximum Average Forward Rectified Current at TA = 60°C P.C. Board Mounting TL = 60°C .125" , (3.18mm) lead lengths	I _o	6.0 22					Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	400					Amps
Typical Thermal Resistance R _{θJL} at 0.5" (12.7mm) lead length	R _{θJL}	10					°C / W
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +175					°C

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

CHARACTERISTICS	SYMBOL	RL750PT	RL751PT	RL752PT	RL754PT	RL756PT	UNITS
Maximum Instantaneous Forward Voltage at 6.0 A 100 A	V _F	0.90 1.25					Volts
Maximum Reverse Current at rated DC blocking Voltage per leg	I _R	0.025 1.0					mAmps
	@ TA = 25°C						
	@ TA = 100°C						

NOTES : Enough heat sink must be considered in application.

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RATING CHARACTERISTIC CURVES (RL750PT THRU RL756PT)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

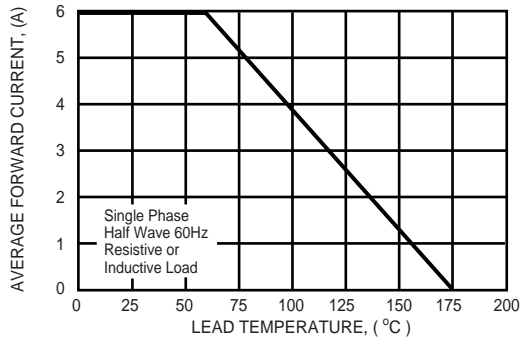


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

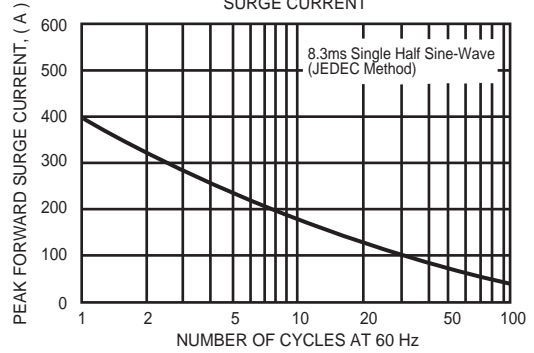


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

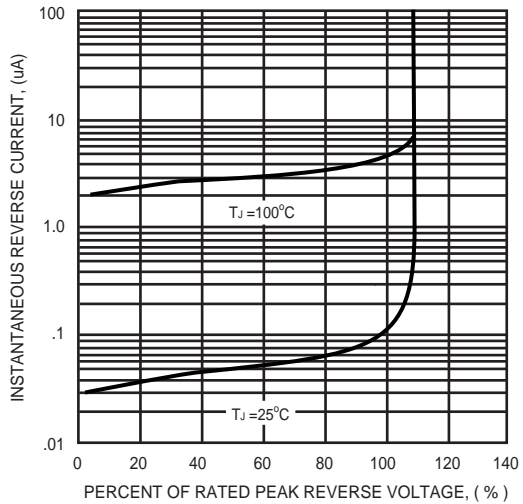


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

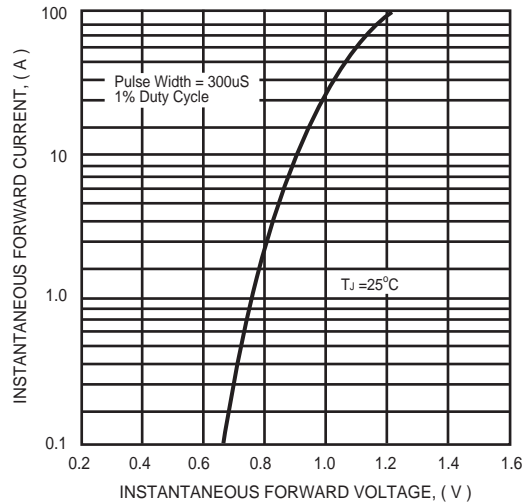


FIG. 5 - TYPICAL THERMAL RESISTANCE VS LEAD LENGTH

