CHENMKO ENTERPRISE CO.,LTD

Lead free devices

SILICON RECTIFIER

VOLTAGE RANGE 50 - 600 Volts CURRENT 6.0 Amperes

RL750PT
THRU
RL756PT

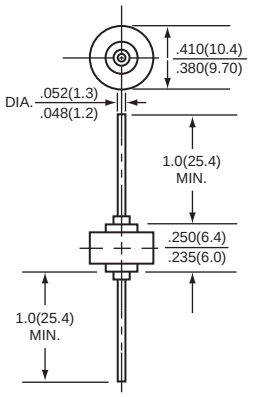
FEATURES

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

RA-L

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



Dimensions in inches and (millimeters)

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 RATINGES (At T_A = 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 T_A = 60°C P.C. Board Mounting T_L = 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 $R_{\theta JL}$ at 0.5" (12.7mm) lead length	$R_{\theta JL}$	10					°C / W
Operating and Storage Temperature Range	T_J, T_{STG}	-65 to +175					°C

ELECTRICAL CHARACTERISTICS (At T_A = 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	@ T_A = 25°C	I_R	0.025					mAmps
	@ T_A = 100°C		1.0					

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

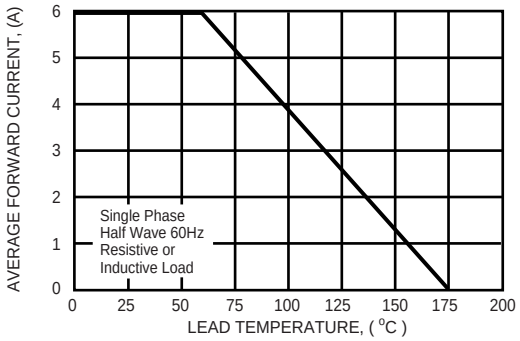

FIG. 2 - MAXIMUM NON-REPETIVE FORWARD SURGE CURRENT

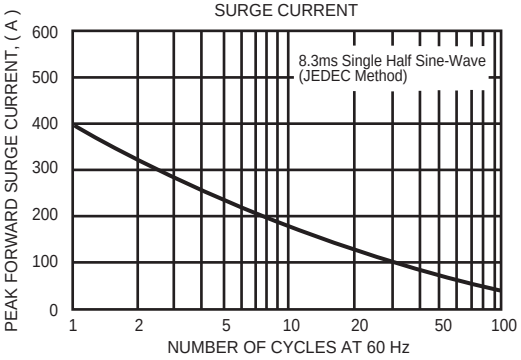

FIG. 3 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

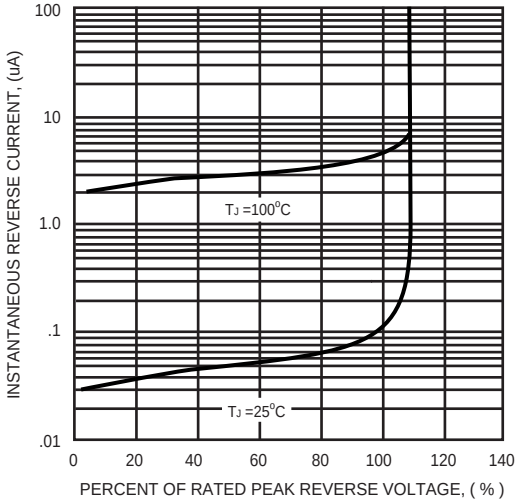

FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

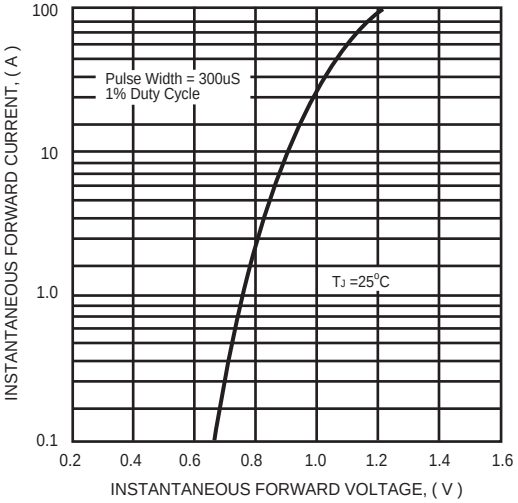

FIG. 5 - TYPICAL THERMAL RESISTANCE VS LEAD LENGTH