



CHENMKO ENTERPRISE CO.,LTD

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 capability

MECHANICAL DATA

Case: JEDEC RA-L molded plastic

Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026

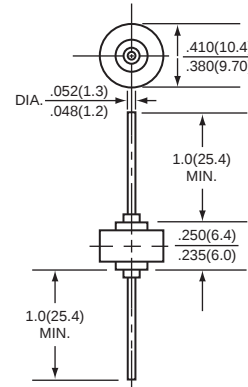
Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 2.50 grams



RA-L



Dimensions in inches and (millimeters)

RA-L

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

RATINGS	SYMBOL	RL750PT	RL751PT	RL752PT	RL754PT	RL756PT	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 = 60°C P.C. Board Mounting TL = 60°C .125" , (3.18mm) lead lengths	Io	6.0 22					Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	400					Amps
Typical Thermal Resistance R θJA at 0.5" (12.7mm) lead length	R θJA	10					°C / W
Operating and Storage Temperature Range	TJ, TSTG	-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	VF	0.90 1.25					Volts
Maximum Reverse Current at rated DC blocking Voltage per leg	IR	0.025 1.0					mAmps

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

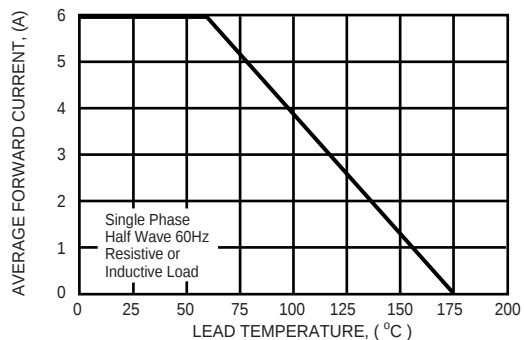


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

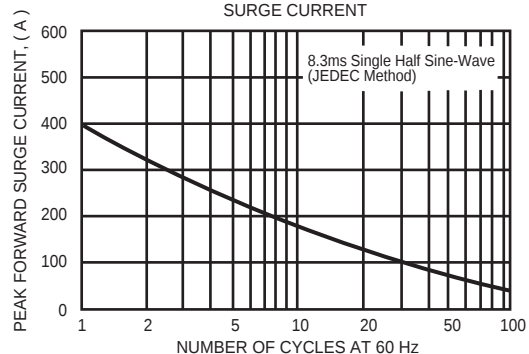


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

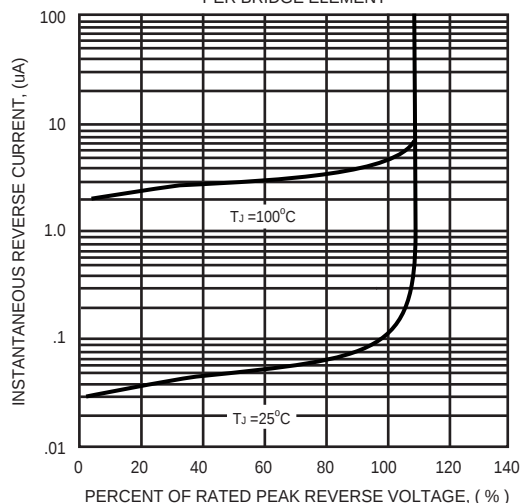


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

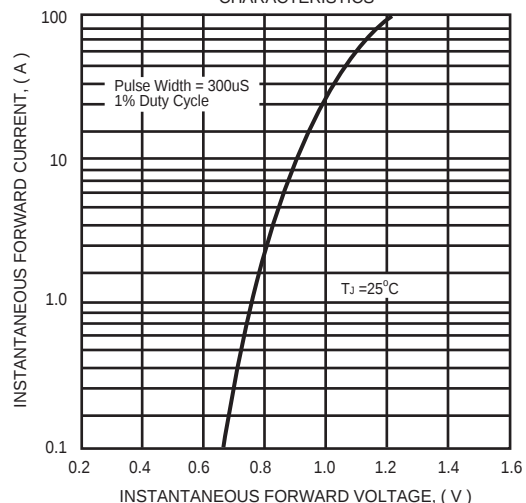


FIG. 5 - TYPICAL THERMAL RESISTANCE VS LEAD LENGTH

