



CHENMKO ENTERPRISE CO.,LTD

Lead free devices

GLASS PASSIVATED

JUNCTION PLASTIC RECTIFIER

VOLTAGE RANGE 50 - 1000 Volts CURRENT 1.5 Amperes

RL151GPT

THRU

RL157GPT

FEATURES

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

MECHANICAL DATA

Case: JEDEC DO-15 molded plastic

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

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.38 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

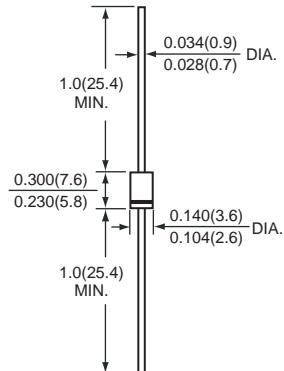
Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.



DO-15



Dimensions in inches and (millimeters)

DO-15

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

RATINGS	SYMBOL	RL151GPT	RL152GPT	RL153GPT	RL154GPT	RL155GPT	RL156GPT	RL157GPT	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V _D C	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 75°C	I _O								Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}								Amps
Typical Junction Capacitance (Note)	C _J								pF
Typical Thermal Resistance	R / JA								°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	RL151GPT	RL152GPT	RL153GPT	RL154GPT	RL155GPT	RL156GPT	RL157GPT	UNITS
Maximum Instantaneous Forward Voltage at 1.5 A DC	V _F				1.1				Volts
Maximum Reverse Current at rated DC blocking Voltage per leg	@ TA = 25°C	IR			5.0				uAmps
	@ TA = 100°C				50				uAmps
Maximum Full Load Reverse Current Average, Full Cycle 0.375" (9.5mm) lead length at TL = 75°C					30				uAmps

NOTES : Measured at 1.0 MHz and applied reverse voltage of 4.0 volts

2001-6

RATING CHARACTERISTIC CURVES (RL151GPT THRU RL157GPT)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

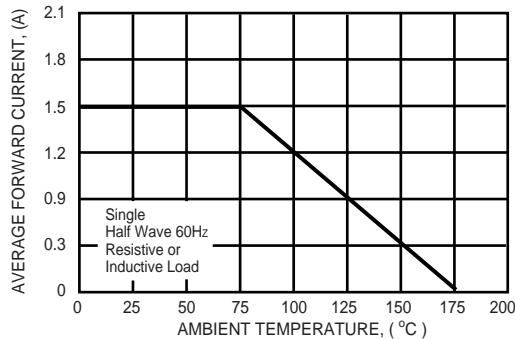


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

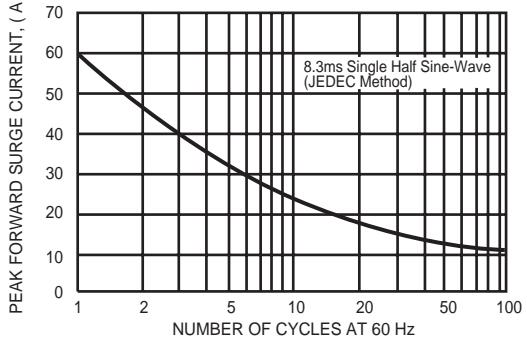


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

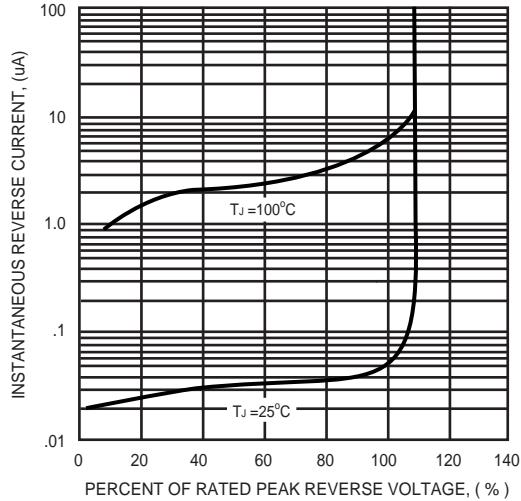


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

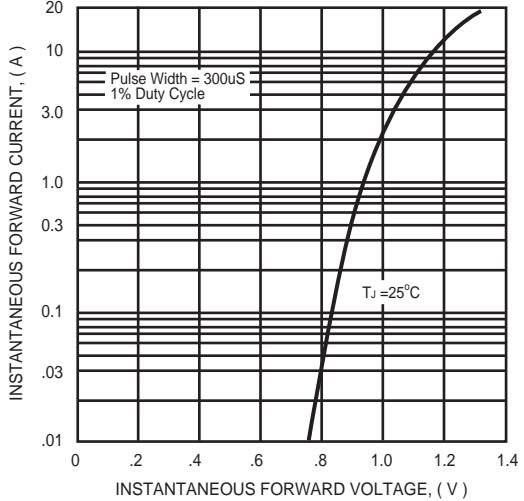


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

