CHENMKO ENTERPRISE CO.,LTD

GLASS PASSIVATED

JUNCTION PLASTIC RECTIFIER

VOLTAGE RANGE 50 - 1000 Volts CURRENT 2.0 Amperes

RL201GPT

THRU

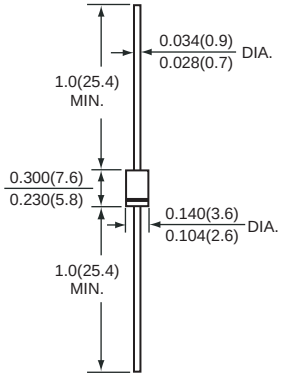
RL207GPT

Lead free devices

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

DO-15



Dimensions in inches and (millimeters)

DO-15

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%.

MAXIMUM RATINGES (At T_A = 25°C unless otherwise noted)

RATINGS	SYMBOL	RL201GPT	RL202GPT	RL203GPT	RL204GPT	RL205GPT	RL206GPT	RL207GPT	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_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T_A = 75°C	I_O	2.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	70							Amps
Typical Junction Capacitance (Note)	C_J	20							pF
Typical Thermal Resistance	$R_{\theta JA}$	40							°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	RL201GPT	RL202GPT	RL203GPT	RL204GPT	RL205GPT	RL206GPT	RL207GPT	UNITS
Maximum Instantaneous Forward Voltage at 2.0 A DC		V_F	1.0							Volts
Maximum Reverse Current at rated DC blocking Voltage per leg	@ T_A = 25°C	I_R	5.0							uAmps
	@ T_A = 100°C		50							uAmps
Maximum Full Load Reverse Current Average, Full Cycle 0.375" (9.5mm) lead length at T_L = 75°C			30							uAmps

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

RATING CHARACTERISTIC CURVES (RL201GPT THRU RL207GPT)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

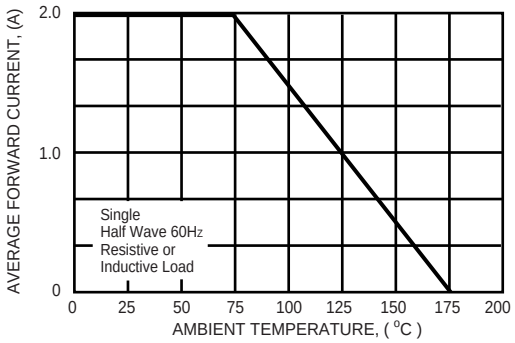


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

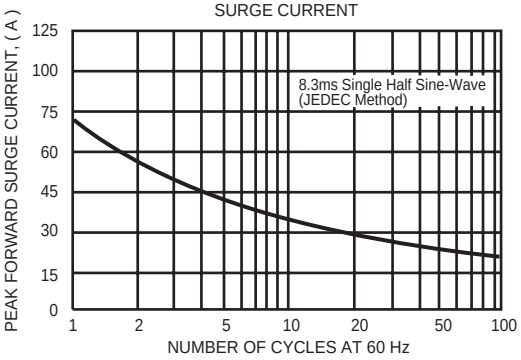


FIG. 3 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

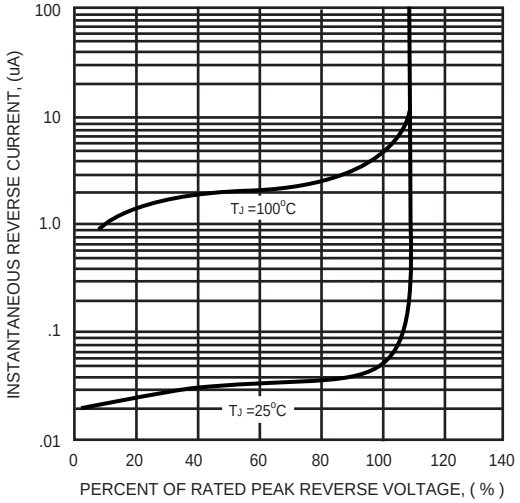


FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

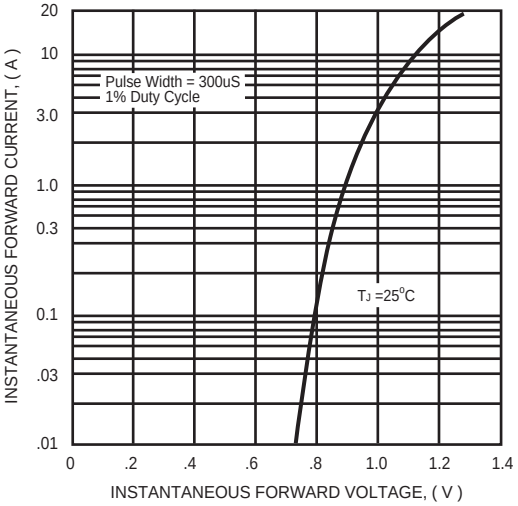


FIG. 5 - TYPICAL JUNCTION CAPACITANCE