

Kingtronics®

RL201 THRU RL207

GENERAL PURPOSE SILICON RECTIFIER

REVERSE VOLTAGE 50 to 1000 Volts **FORWARD CURRENT** 2.0 Amperes

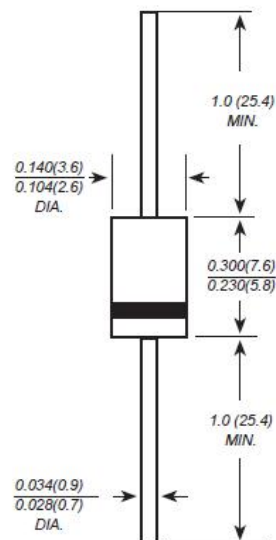
FEATURES

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed:
250°C/10 seconds, 0.375" (9.5mm) lead length,
5 lbs. (2.3kg) tension

MECHANICAL DATA

- Case: JEDEC DO-15 molded plastic body
- Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.014 ounce, 0.40 grams

DO-15



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified ,
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load derate current by 20%

Dimensions in inches and (millimeters)

PARAMETER	SYMBOL	RL201	RL202	RL203	RL204	RL205	RL206	RL207	UNIT
Maximum Repetitive 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 0.375" (9.5mm) lead length at $T_A=75^\circ\text{C}$	$I_{(AV)}$	2.0							Amp
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50.0							Amps
Maximum instantaneous forward voltage at 2.0A	V_F	1.4							VOLTS
Maximum DC Reverse Current $T_A= 25^\circ\text{C}$ at Rated DC blocking voltage $T_A = 100^\circ\text{C}$	I_R	5.0 200.0							μA
Typical Junction Capacitance (Note 1)	C_J	20.0							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	50.0							$^\circ\text{C/W}$
Operating junction and storage temperature range	T_J, T_{STG}	-65 to +175							$^\circ\text{C}$

1- Measured at 1MHz and applied reverse voltage of 4.0V D.C.

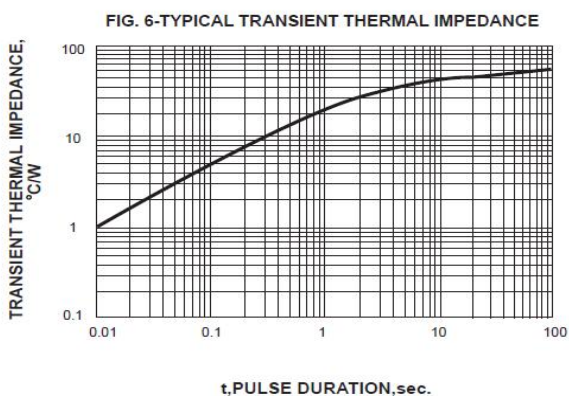
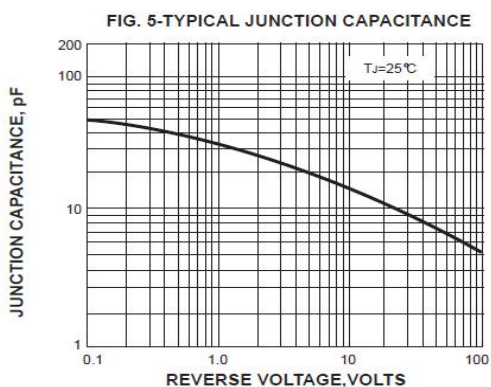
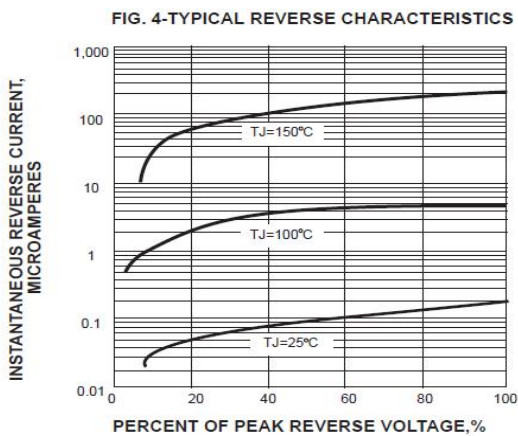
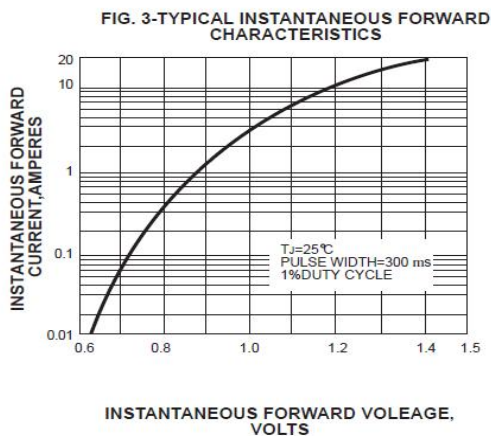
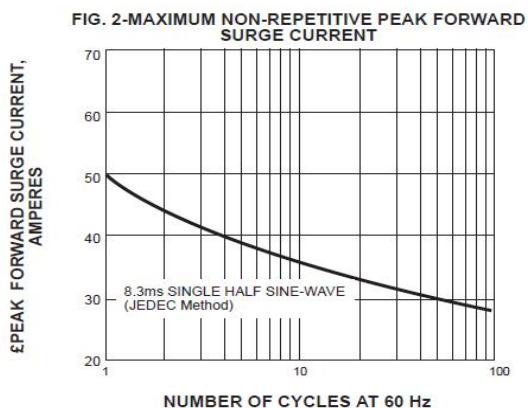
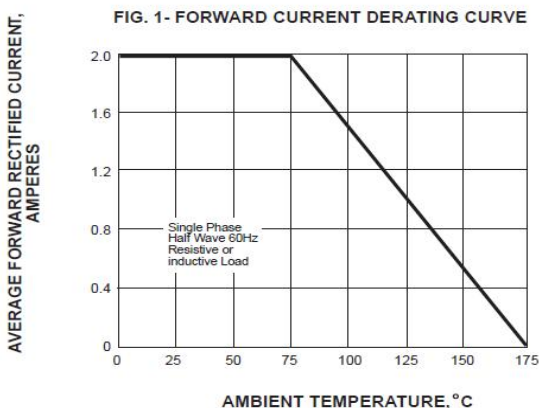
2-Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length ,P.C.B. mounted

Kingtronics® International Company

Kingtronics®

RL201 THRU RL207

RATINGS AND CHARACTERISTIC CURVES



Note: Specifications are subject to change without notice.

Kingtronics® International Company