Pb Free Plating Product

RL201 thru RL207

2.0 Ampere Silicon General Purpose Rectifier Diodes

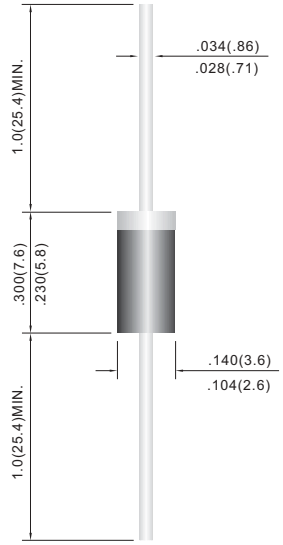
Features

- High surge current capability
- 2.0 ampere operation at T_A = 75°C with no thermal runaway
- Low reverse leakage
- Construction utilizes void-free molded plastic technique.
- High temperature soldering guaranteed: 250°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs (2.3kg) tension

Mechanical Data

- **Case:** Molded plastic, DO-15.
- **Terminals:** Plated axial leads, solderable per MIL-STD-750, method 2026
- **Polarity:** Color band denotes cathode end.
- **Mounting Position:** Any.

DO-15 Unit: inch(mm)



Absolute Maximum Ratings and Characteristics @ 25 ℃ unless otherwise specified.

	Symbols	RL201	RL202	RL203	RL204	RL205	RL206	RL207	Units
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 current at T_A = 75 °C	$I_{(AV)}$	2							Amps
Peak forward surge current 8.3mS single half sine-wave superimposed on rated load (MIL-STD-750D 4066 method)	I_{FSM}	70							Amps
Maximum instantaneous forward voltage at I_{FM} = 2.0A , T_A = 25°C (Note 2)	V_F	1							Volts
Maximum DC reverse current T_A = 25°C at rated DC blocking voltage T_A = 100 °C	I_R	5 50							μA
Typical thermal resistance	$R_{\theta JA}$	40							°C/W
Typical junction capacitance (Note 1)	C_J	20							pF
Operating and storage temperature range	T_J ,T_S	-65 to +175							°C

Notes:

(1) Measured at 1MHz and applied reverse voltage of 4volts

(2) Pulse test: pulse width 300 uSec, Duty cycle 1%.

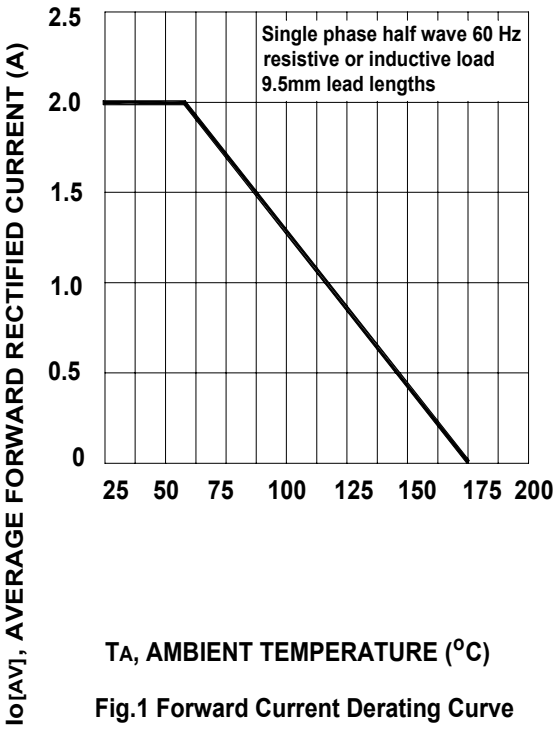


Fig.1 Forward Current Derating Curve

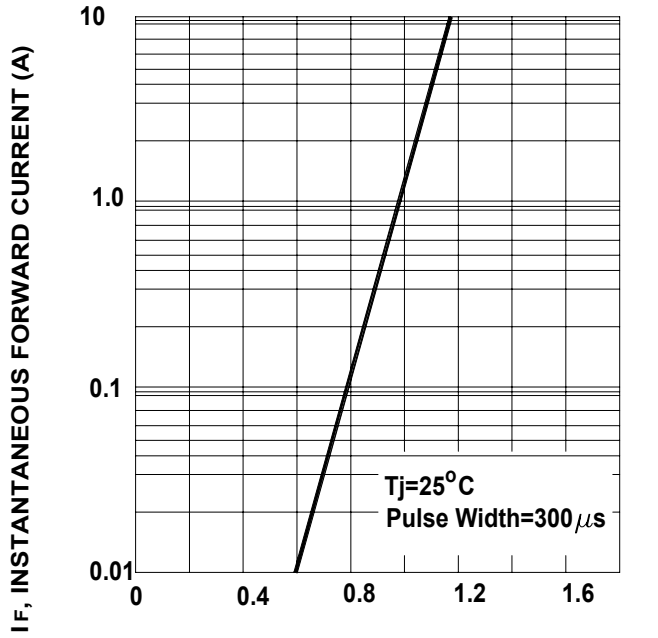


Fig.2 Typical Forward Characteristics

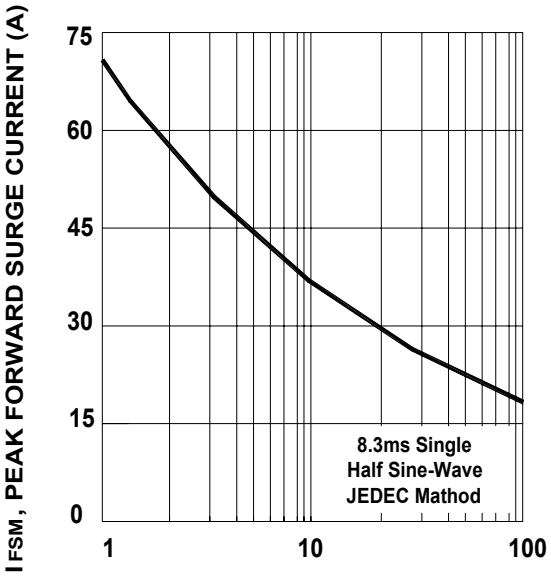


Fig.3 Max Non-Repetitive Peak Forward Surge Current

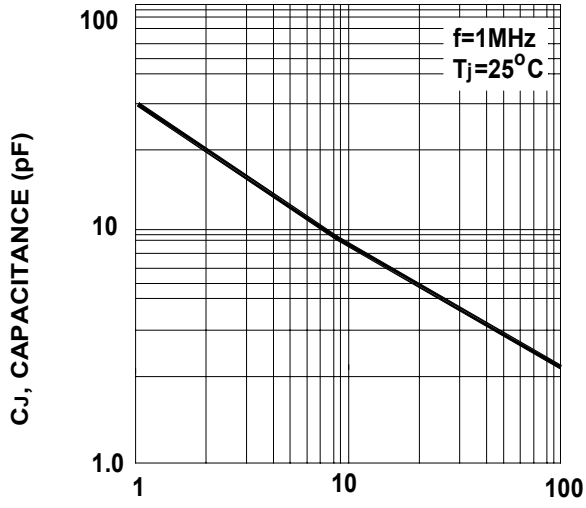


Fig.4 Typical Junction Capacitance