

RL201 THRU RL207

SILICON RECTIFIER

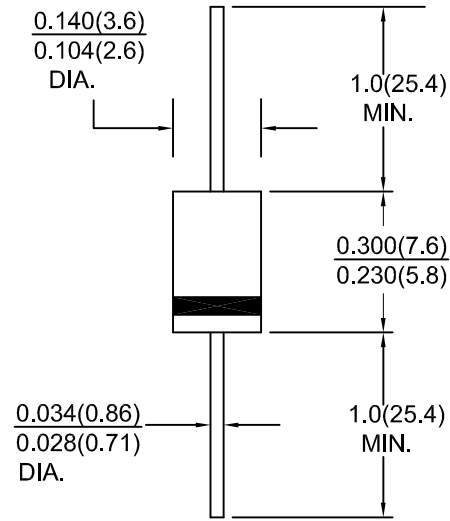
DO-15

FEATURES:

- Plastic package Underwriters Laboratory Flammability Classification 94-0
- Construction plastic technique molded plastic technique
- Low reverse leakage, high efficiency
- Low forward voltage drop
- 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
 Terminals : Leads solderable per MIL-STD-750 Method 2026
 Polarity : As marked
 Mounting Postition : Any
 Mounting Torque 5 in - lbs. max
 Weight : 0.08 ounce, 2.24 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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%.

Characteristic	Symbol	RL 201	RL 202	RL 203	RL 204	RL 205	RL 206	RL 207	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 0.375"(9.5mm) lead length at $T_c=55^\circ C$	$I_{(AV)}$	2.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	70.0							Amps
Maximum Instantaneous forward voltage $I_F=2.0A$	V_F	1.1							Volts
Maximum DC reverse current at rated DC blocking voltage $T_a=25^\circ C$ $T_a=100^\circ C$	I_R	5.0 50.0							μA
Typical thermal resistance (NOTE1)	R_{th-JC}	50.0							$^\circ C/W$
Typical Junction capacitance (NOTE2)	C_J	20.0							Pf
Operating Junction and Storage temperature range	T_J, T_{Stg}	-65to+175							$^\circ C$

NOTES:

- (1) Thermal resistance from junction to AMBIENT AT 0.375"(9.5MM) lead length, P.C.B. Mounted
- (2) Measured at 1MHZ and applied reverse voltage of 4.0VD.C.

RATINGS AND CHARACTERISTIC CURVES RL201 THRU RL207

FIG.1 - TYPICAL FORWARD CURRENT DERATING CURVE

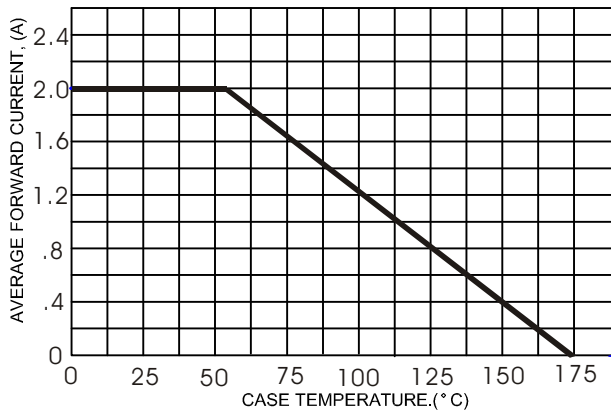


FIG.2 - TYPICAL FORWARD CHARACTERISTICS

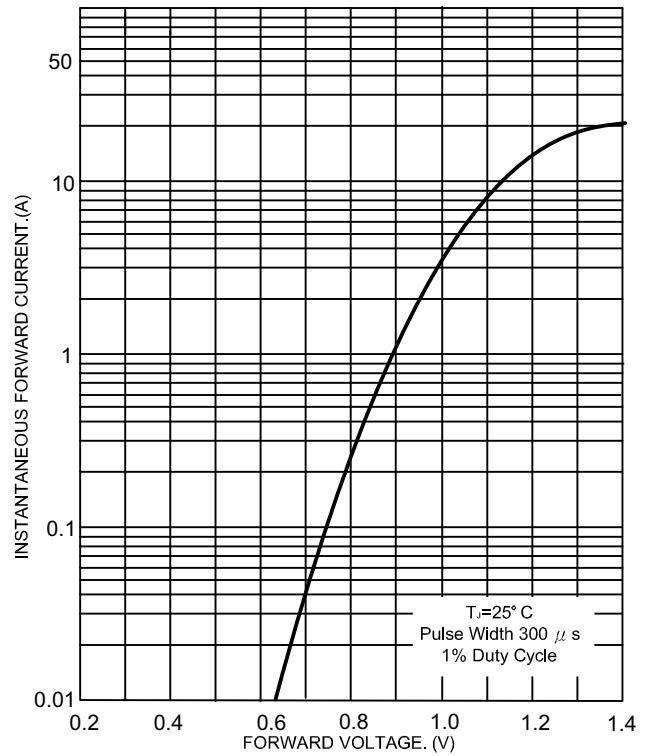


FIG.3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

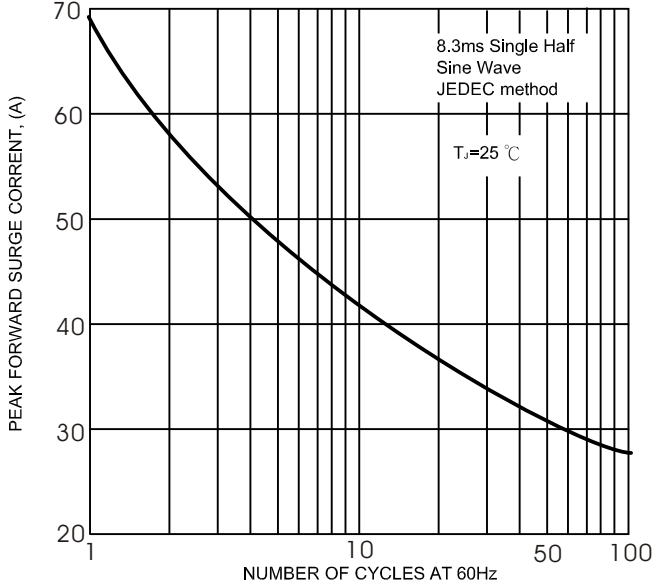


FIG.5- TYPICAL REVERSE CHARACTERISTICS

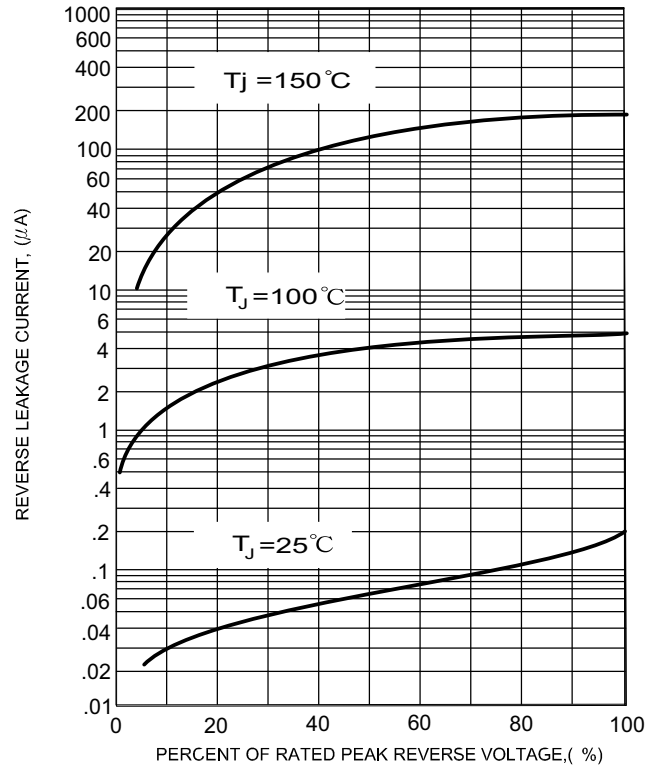


FIG.4- TYPICAL JUNCTION CAPACITANCE

