



**DC COMPONENTS CO., LTD.**  
RECTIFIER SPECIALISTS

**RL201  
THRU  
RL207**

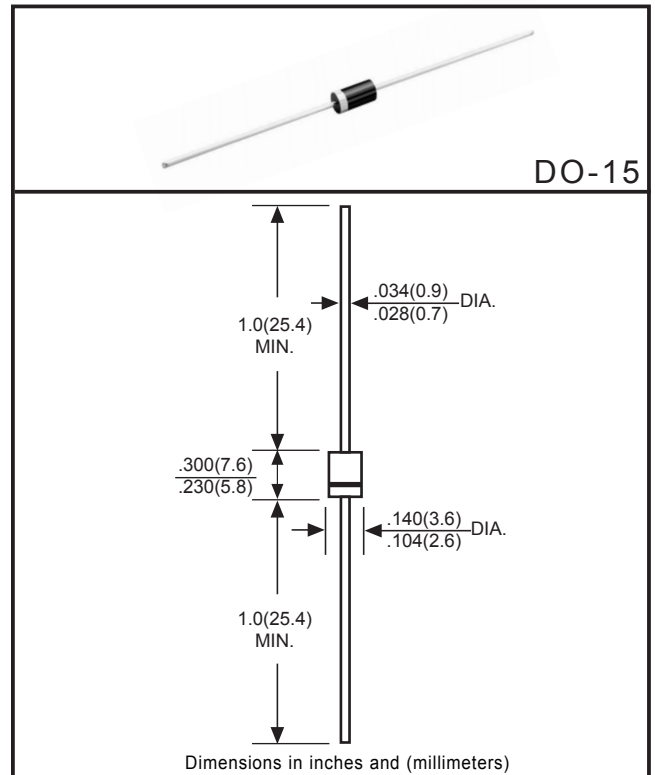
**TECHNICAL SPECIFICATIONS OF GENERAL PURPOSE SILICON RECTIFIER**  
**VOLTAGE RANGE - 50 to 1000 Volts**      **CURRENT - 2.0 Amperes**

**FEATURES**

- \* Low cost
- \* Low leakage current
- \* Low forward voltage drop
- \* High current capability

**MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: UL 94-V0 rate flame retardant
- \* Lead: MIL-STD-202E, Method 208 guaranteed
- \* 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, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%.

	SYMBOL	RL201	RL202	RL203	RL204	RL205	RL206	RL207	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current 375" (9.5mm) lead length at TA = 55°C	IO	2.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	70							Amps
Maximum Instantaneous Forward Voltage at 2.0A DC	VF	1.1							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage	@TJ = 25°C	5.0							μAmps
	@TJ = 125°C	500							
Typical Junction Capacitance (Note 1)	CJ	20							pF
Typical Thermal Resistance (Note 2)	RθJA	40							°C/W
Operating and Storage Temperature Range	TJ,TSTG	-55 to +150							°C

Note 1 :Measured at 1 MHz and applied reverse voltage of 4.0 volts.  
Note 2 :Typical thermal resistance from junction to ambient.

# RATING AND CHARACTERISTIC CURVES (RL201 THRU RL207)

FIG. 1  
TYPICAL FORWARD CURRENT  
DERATING CURVE

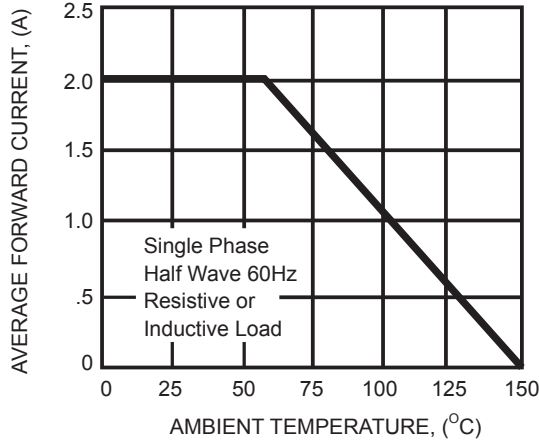


FIG. 2  
MAXIMUM NON-REPETITIVE FORWARD  
SURGE CURRENT

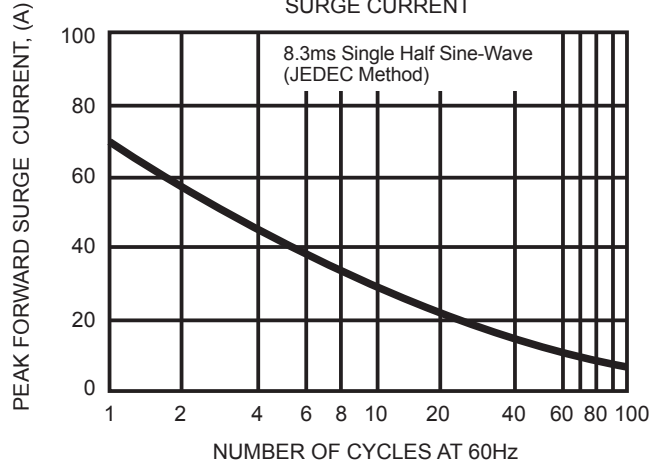


FIG. 3  
TYPICAL INSTANTANEOUS  
FORWARD CHARACTERISTICS

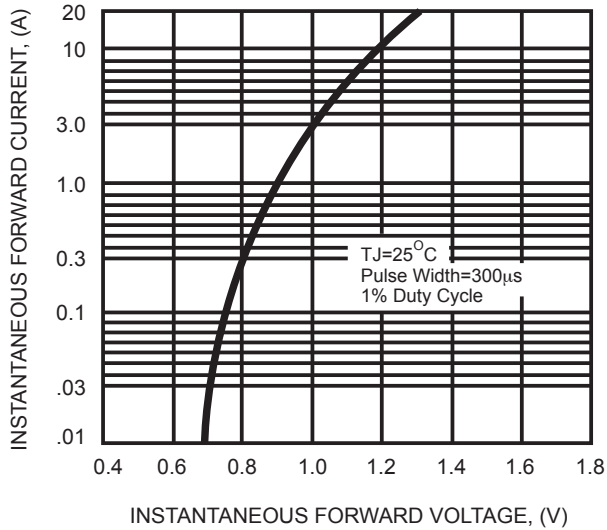


FIG. 4  
TYPICAL REVERSE CHARACTERISTICS

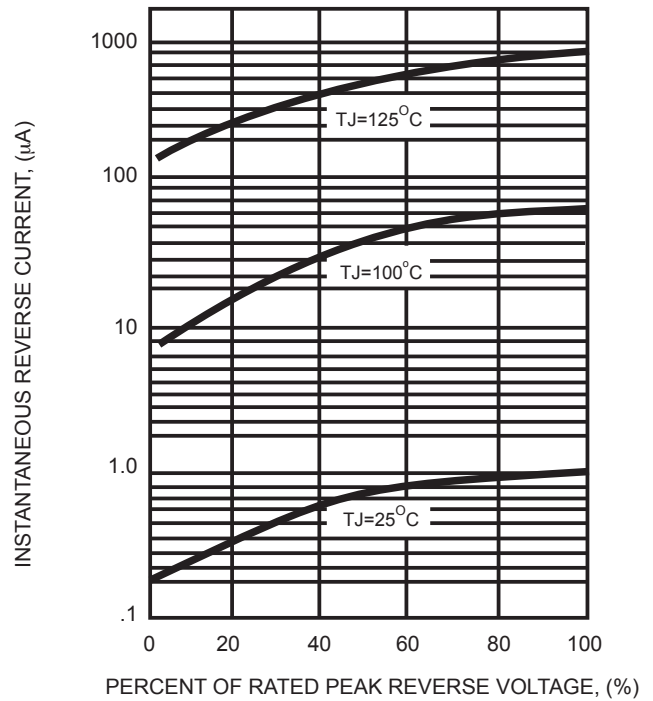
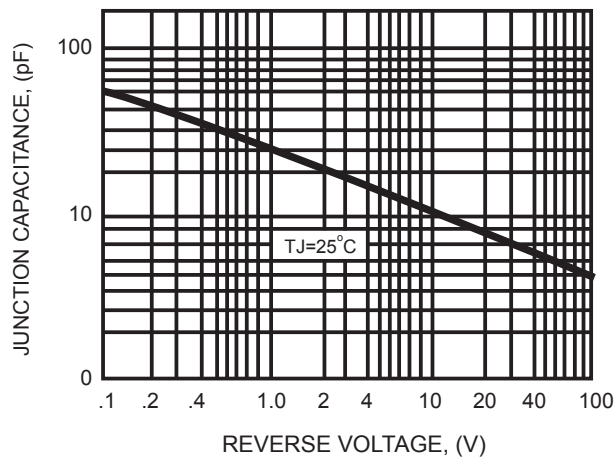


FIG. 5  
TYPICAL JUNCTION CAPACITANCE



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