## **RL1601 THRU RL1607**

## GLASS PASSIVATED SILICON RECTIFIERS Reverse Voltage – 50 to 1000 Volts Forward Current – 16.0 Amperes

#### **Features**

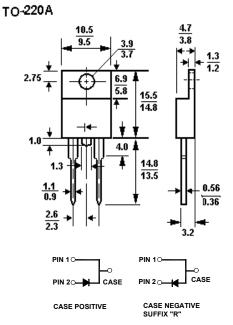
- Low forward voltage drop
- · High current capability
- · High capability
- High surge current capability

#### **Mechanical Data**

Case: Molded plastic, TO-220A
Terminals: leads solderable per

MIL-STD-202, method 208 guaranteed

Polarity: As markedMounting Position: Any



### **Absolute Maximum Ratings and Characteristics**

### **Dimensions in mm**

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%.

		Symbols	RL 1601	RL 1602	RL 1603	RL 1604	RL 1605	RL 1606	RL 1607	Units
Maximum recurrent peak reverse voltage		$V_{RRM}$	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage		V <sub>RMS</sub>	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 $T_C = 100^{\circ}$ C		I <sub>(AV)</sub>	16.0							Amps
Peak forward surge current 8.3ms single half -sine-wave superimposed on rated load (JEDEC method)		I <sub>FSM</sub>	250							Amps
Maximum forward voltage at 16.0A DC and 25°C		V <sub>F</sub>	1.1							Volts
Typical junction Capacitance (Note1)		C₁	100							pF
Typical thermal resistance (Note2)		R <sub>0JC</sub>	2.0							°C/W
Maximum reverse current at rated DC blocking voltage	@T <sub>C</sub> = 25 <sup>o</sup> C					10				μAmps
	@T <sub>C</sub> =125 <sup>O</sup> C	I <sub>R</sub>				250				μAmps
Operating and storage temperature range		T <sub>J</sub> ,T <sub>Stg</sub>	-55 to +150							οС

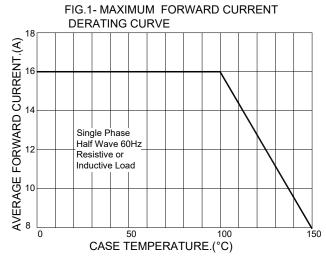
Notes :1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.

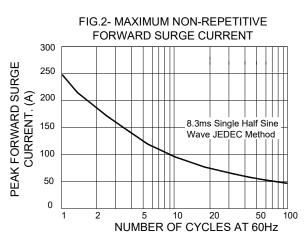
2. Thermal resistance from junction to case mounted on heatsink.

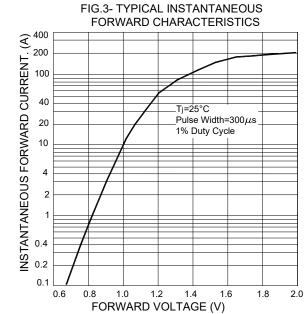


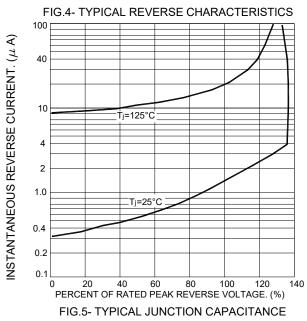
Dated : 12/12/2003

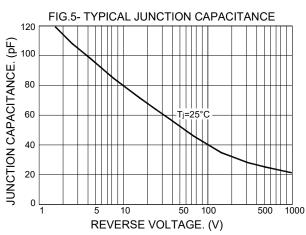
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Dated : 12/12/2003