# **RL1601 THRU RL1607**

# GLASS PASSIVATED SILICON RECTIFIERS

Reverse Voltage – 50 to 1000 Volts Forward Current – 16.0 Amperes

### **Features**

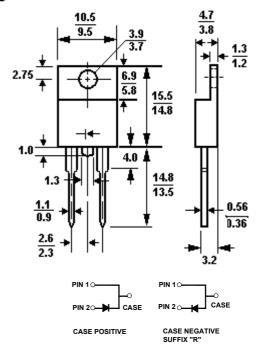
- Low forward voltage drop
- · High current capability
- High capability
- High surge current capability

#### **Mechanical Data**

 Case: Molded plastic, TO-220A
 Terminals: leads solderable per MIL-STD-202, method 208 guaranteed

Polarity: As markedMounting Position: Any

# TO-220A



### **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℃		$V_{F}$	1.1						Volts	
Typical junction Capacitance (Note1)		C <sup>J</sup>	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		$T_J$ , $T_s$	-55 to +150							оС

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

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



# SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, acompany listed on the Hong Kong Stock Exchange, Stock Code: 724)

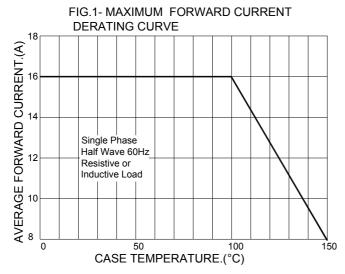


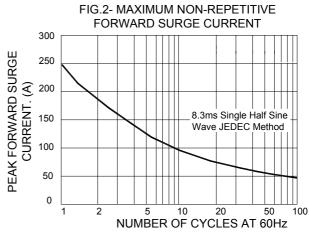


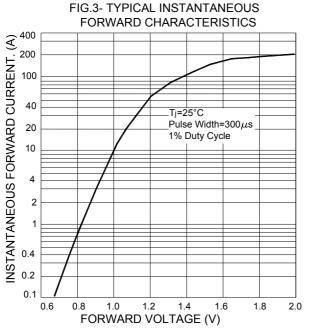


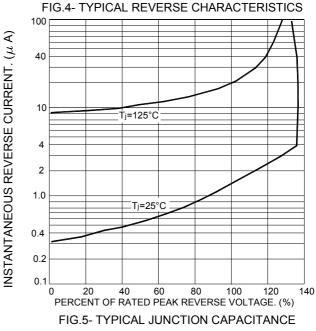
Dated : 12/12/2003

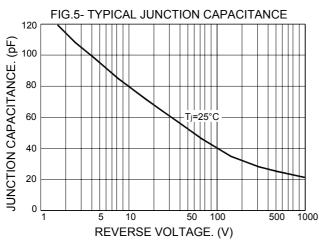
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ISO/TS 16949 : 2002 Certificate No. 05103



