RL1601 THRU RL1607

GLASS PASSIVATED SILICON RECTIFIERS

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

Features

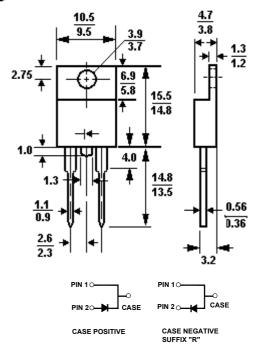
- Low forward voltage drop
- · High current capability
- High capability
- High surge current capability

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 _{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 $T_C = 100^{\circ}C$		I _(AV)	16.0							Amps
Peak forward surge current 8.3ms single half -sine-wave superimposed on rated load (JEDEC method)		I _{FSM}	250							Amps
Maximum forward voltage at 16.0A DC and 25℃		V_{F}	1.1						Volts	
Typical junction Capacitance (Note1)		C ^J	100							pF
Typical thermal resistance (Note2)		R _{0JC}	2.0							°C/W
Maximum reverse current at rated DC blocking voltage	@T _C = 25 ^O C		10							μAmps
	@T _C =125 ^O C	I _R	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.



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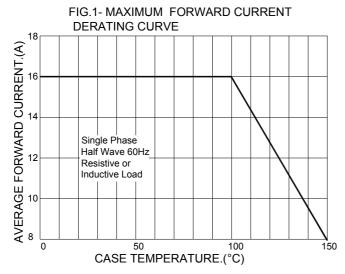


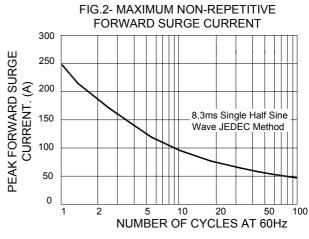


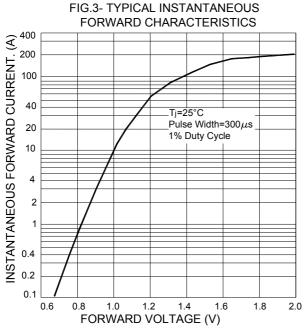


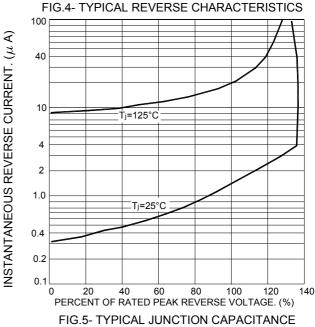
Dated : 12/12/2003

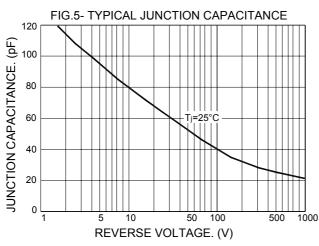
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Dated: 12/12/2003