



GLASS PASSIVATED SILICON RECTIFIER

VOLTAGE RANGE 50 to 800 Volts CURRENT 16 Amperes

FEATURES

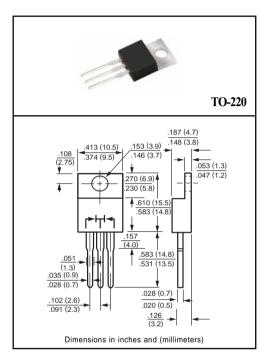
- * Low power loss, high efficiency
- * Low forward voltage drop
- * Low thermal resistance
- * High current capability
- * High surge capability
- * High reliability

MECHANICAL DATA

- * Case: TO-220 molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any
- * Weight: 2.24 grams
- * Polarity: As marked

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings 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%.



MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	RL1601C	RL1602C	RL1603C	RL1604C	RL1605C	RL1606C	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	Volts
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	Volts
Maximum Average Forward Rectified Current Tc = 100°C (Note 1)	lo	16.0						Amps
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	IFSM	200						Amps
Typical Thermal Resistance	RθJC	3.0						°C/W
Typical Junction Capacitance (Note 2)	CJ	40						pF
Operating and Storage Temperature Range	TJ, TSTG	-55 to + 150					° C	

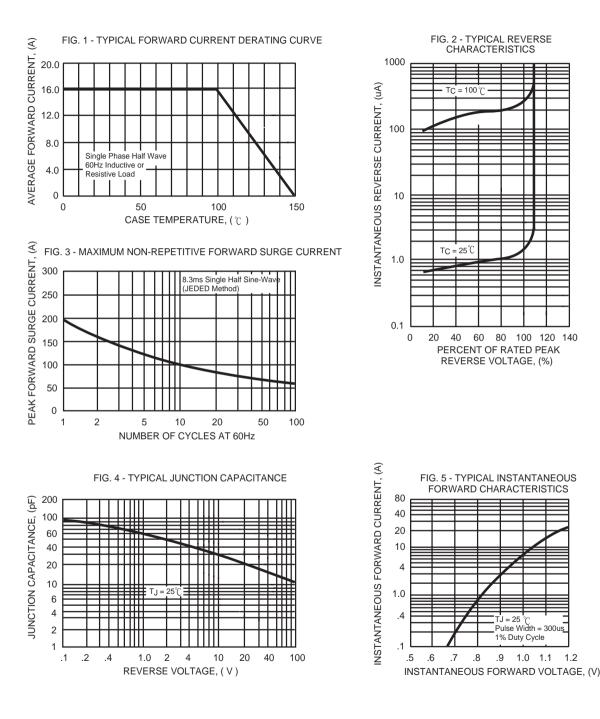
ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS		SYMBOL	RL1601C	RL1602C	RL1603C	RL1604C	RL1605C	RL1606C	UNITS
Maximum Instantaneous Forward Voltage at 8.0A DC		VF	1.1					Volts	
Maximum DC Reverse Current	@Tc = 25°C	la.	10					uAmps	
at Rated DC Blocking Voltage	@Tc = 100°C	IR	100						

NOTES : 1.Case Temperature Measured at Metal Tab.

2.Measured at 1 MHz and applied reverse voltage of 4.0 volts. 3.Suffix " A " = Common Anode.

RATING AND CHARACTERISTIC CURVES (RL1601C THRU RL1606C)



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RL1601C RL1603C RL1605A RL1605C RL1604C RL1606C RL1602C