RL1601CT THRU RL1607CT

GLASS PASSIVATED SILICON RECTIFIER



REVERSE VOLTAGE: 50 to 1000 VOLTS FORWARD CURRENT: 16.0 AMPERE

FEATURES

· Low forward voltage drop

· High current capability

· High capability

· High surge current capability

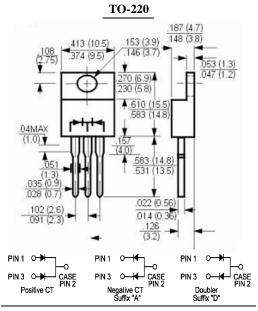
MECHANICAL DATA

Case: Molded plastic, TO-220

Epoxy: UL 94V-O rate flame retardant

Terminals: Leads solderable per MIL-STD-202

method 208 guaranteed
Polarity: As marked
Mounting position: Any
Weight: 0.08ounce, 2.24gram



Dimensions in inches and (millimeters)

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%.

	Symbols	RL1601CT	RL1602CT	RL1603CT	RL1604CT	RL1605CT	RL1606CT	RL1607CT	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 .375''(9.5mm) Lead Length at T _C =100℃	I _(AV)	16.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	150							Amp
Maximum Forward Voltage at 8.0A DC and 25℃	V_{F}	1.1							Volts
Maximum Reverse Current at $T_C=25^{\circ}$ C at Rated DC Blocking Voltage $T_C=100^{\circ}$ C	I_R	10.0 100							uAmp
Typical Junction Capacitance (Note 1)	C _J	50							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	3							°C/W
Operating and Storage Temperature Range	T _J , Tstg	-55 to +150							${\mathfrak C}$

NOTES:

- 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2- Thermal Resistance from Junction to Case per Leg Mounted on Heatsink.

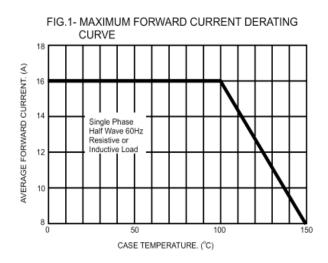
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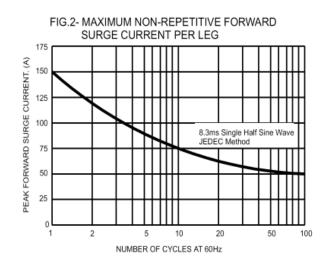
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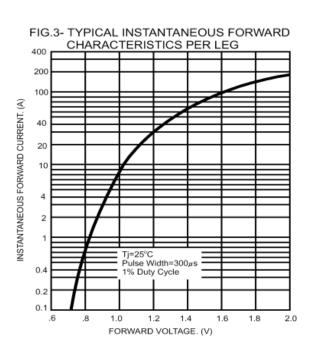




RATINGS AND CHARACTERISTIC CURVES







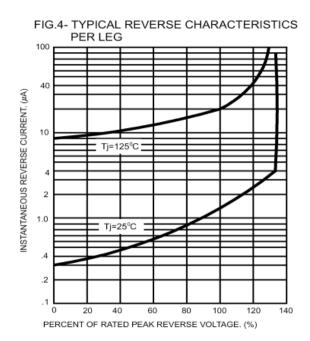


FIG.5- TYPICAL JUNCTION CAPACITANCE PER LEG

