RL1601 THRU RL1607

GLASS PASSIVATED SILICON RECTIFIER

康 比 電 子
HORNBY ELECTRONIC

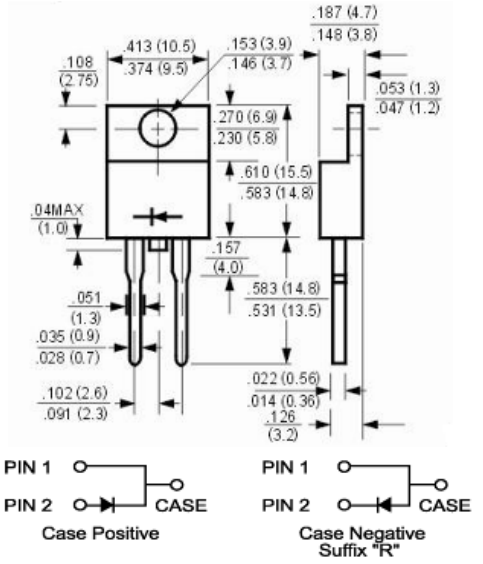
REVERSE VOLTAGE: **50 to 1000 VOLTS**

FORWARD CURRENT: **16.0 AMPERE**

FEATURES

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

TO-220A



Dimensions in inches and (millimeters)

MECHANICAL DATA

Case: Molded plastic, TO-220A
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

Maximum Ratings and Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60H_Z, resistive or inductive load.
For capacitive load, derate current by 20%.

	Symbols	*RL1601*	*RL1602*	*RL1603*	*RL1604*	*RL1605*	*RL1606*	*RL1607*	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}	250							**Amp**
Maximum Forward Voltage at 16.0A DC and 25℃	V_F	1.1							**Volts**
Maximum Reverse Current at T_C=25℃	I_R	10.0							**uAmp**
at Rated DC Blocking Voltage T_C=125℃		250							
Typical Junction Capacitance (Note 1)	C_J	100							**pF**
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	2							**℃/W**
Operating and Storage Temperature Range	T_J, Tstg	-55 to +150							**℃**

NOTES:

1- Measured at 1 MH_Z and applied reverse voltage of 4.0 VDC.

2- Thermal Resistance from Junction to Case Mounted on Heatsink.

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RATINGS AND CHARACTERISTIC CURVES

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

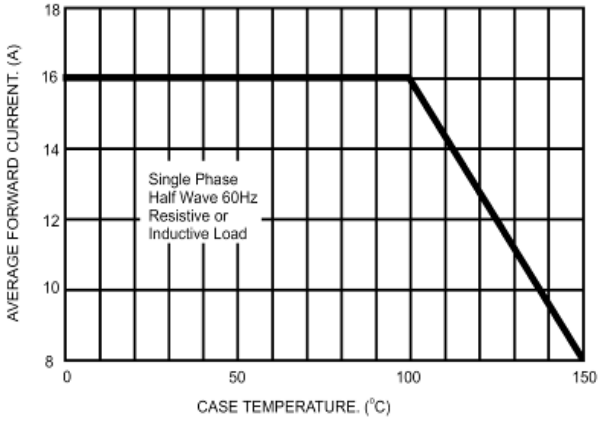

FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

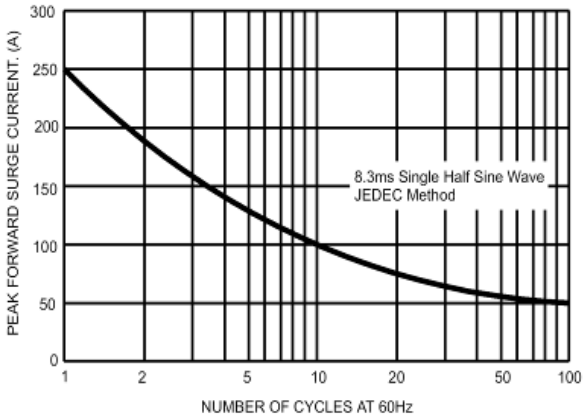

FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

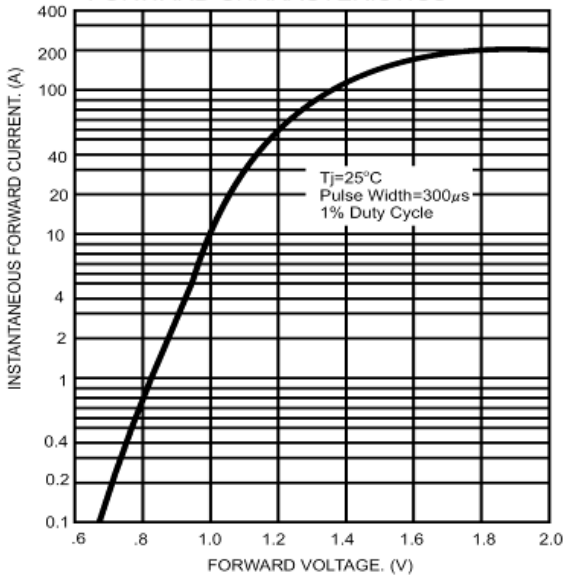

FIG.4- TYPICAL REVERSE CHARACTERISTICS

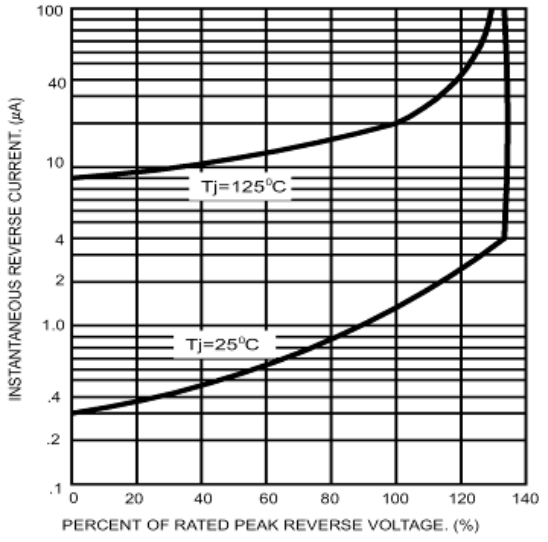

FIG.5- TYPICAL JUNCTION CAPACITANCE

FIG.5- TYPICAL JUNCTION CAPACITANCE