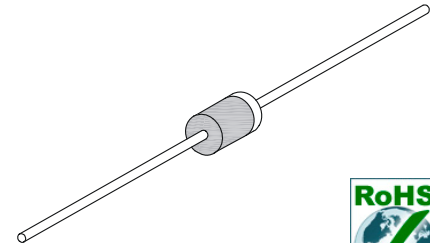


## 1.0A Standard Rectifier

### Features

- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- High Reliability
- High Temperature Soldering Guaranteed 250°C/10 seconds  
/.375" (9.5mm) lead length, 5lbs (2.3kg) tension
- RoHS compliant



### Mechanical Data

<b>Case:</b>	Molded Plastic
<b>Epoxy:</b>	Meets UL 94V-0 flammability rating
<b>Terminals:</b>	Axial leads, solderable per MIL-STD-202, Method 208
<b>Polarity:</b>	Cathode indicated by color band
<b>Weight:</b>	0.012 Ounce, 0.34 gram

### Maximum Ratings ( $T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	RL101	RL102	RL103	RL104	RL105	RL106	RL107	Unit
<b>VRRM</b>	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V
<b>VRMS</b>	Maximum RMS Voltage	35	70	140	280	420	560	700	V
<b>VDC</b>	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
<b>IO(AV)</b>	Maximum Average Forward Rectified Current @Ta=75° C	1.0							A
<b>IFSM</b>	Peak Forward Surge Current (Note1)	50							A
<b>TJ</b>	Operating Junction Temperature Range	-55 to +125							° C
<b>TSTG</b>	Storage Temperature Range	-55 to +150							° C

# 1.0A Standard Rectifier

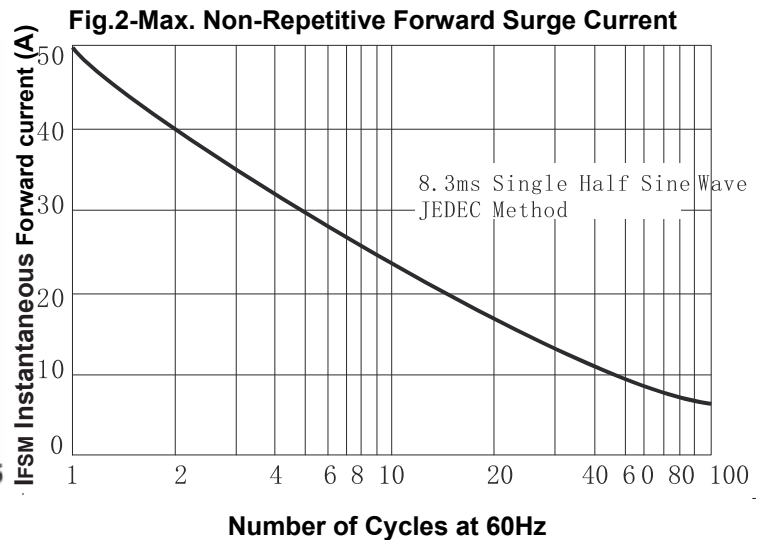
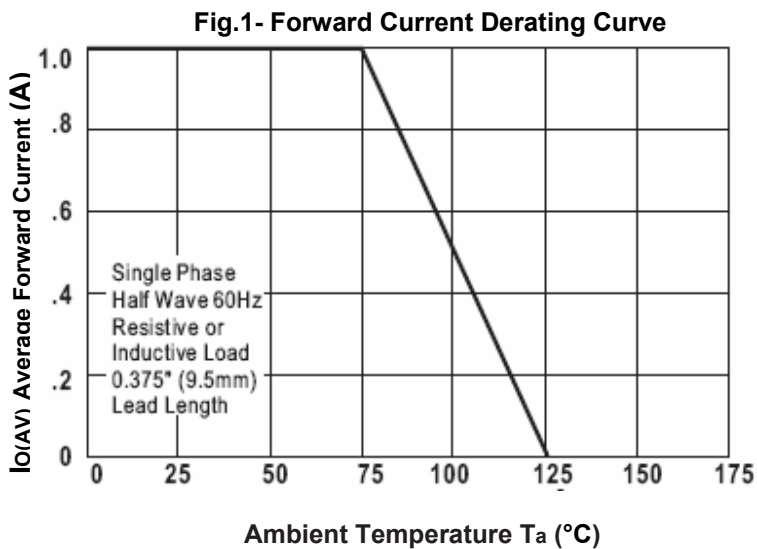
## RL101 - RL107

### Electrical Characteristics ( $T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Symbol	Description	RL101	RL102	RL103	RL104	RL105	RL106	RL107	Unit
<b>V<sub>F</sub></b>	Maximum Forward Voltage @ I <sub>F</sub> =1.0A	1.1							V
<b>I<sub>R</sub></b>	Maximum DC Reverse Current at Rated DC Blocking Voltage	T <sub>A</sub> =25° C			5.0			μA	
		T <sub>A</sub> =125° C			50			uA	
<b>C<sub>J</sub></b>	Typical Junction Capacitance (Note2)	15							pf
<b>R<sub>θ</sub>-JA</b>	Maximum Thermal Resistance (Note3)	50							° C/W

- Note:**
1. 8.3ms single half sine-wave superimposed on rated load (JEDEC method)
  2. Measured at 1MHz and applied reverse voltage of 4.0Volts D.C.
  3. Thermal resistance from junction to ambient at .375" (9.5mm) lead length.

### Typical Characteristics Curves



# 1.0A Standard Rectifier

## RL101 - RL107

Fig.3-Typical Instantaneous Forward Characteristics

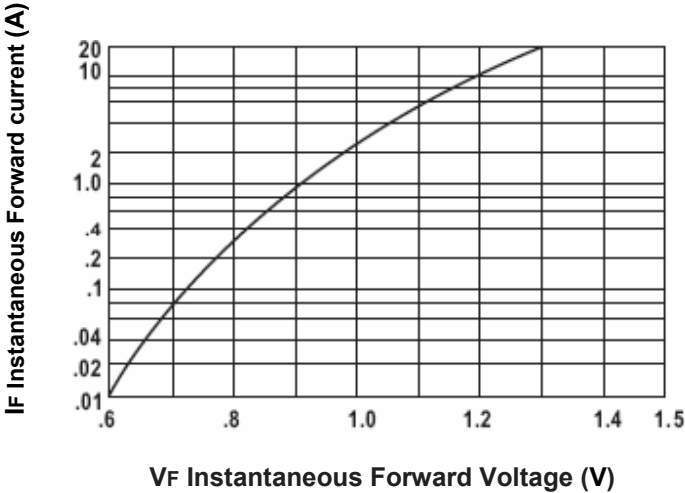


Fig.4- Typical Reverse Characteristics

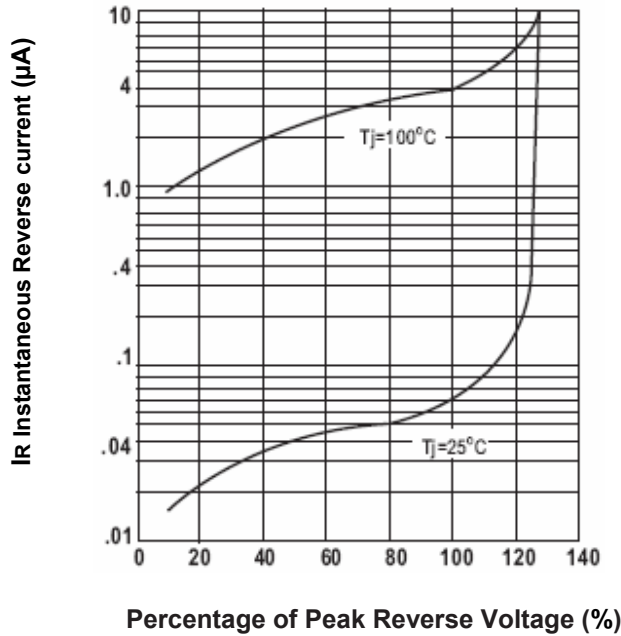
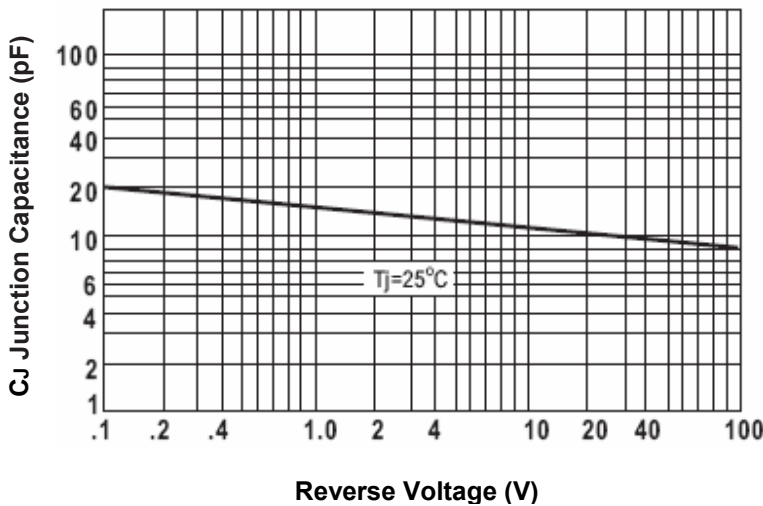


Fig.5-Typical junction capacitance

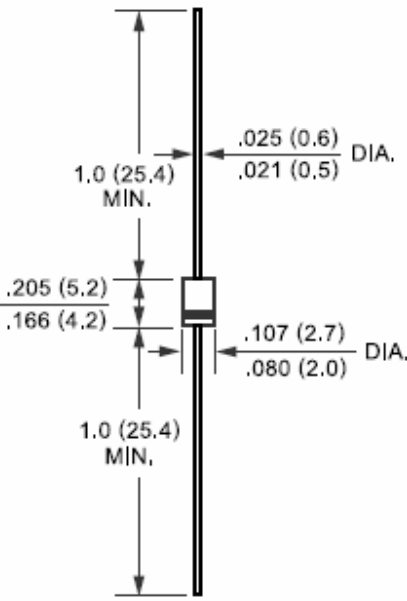


# 1.0A Standard Rectifier

## RL101 - RL107

Dimensions in inches (mm)

A-405



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