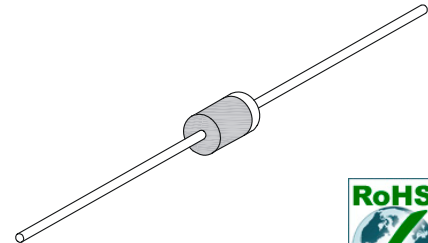


## 1.0A Glass Passivated Rectifier

### Features

- Low Forward Voltage Drop
- High Current Capability
- High Surge Current Capability
- High Reliability
- High Temperature Soldering Guaranteed 260°C/10 seconds  
.375" (9.5mm) lead length, 5lbs (2.3kg) tension
- RoHS compliant



**A-405**



### 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-202E, Method 208
<b>Polarity:</b>	Cathode indicated by color band
<b>Weight:</b>	0.012 Ounce, 0.33 gram

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

Symbol	Description	RL101G	RL102G	RL103G	RL104G	RL105G	RL106G	RL107G	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 @ $T_a=75^{\circ}C$	1.0							A
<b>IFSM</b>	Peak Forward Surge Current (Note1)	50							A
<b>TJ</b>	Operating Junction Temperature Range	-55 to +150							$^{\circ}C$
<b>TSTG</b>	Storage Temperature Range	-55 to +175							$^{\circ}C$

# 1.0A Glass Passivated Rectifier

## RL101G - RL107G

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

Symbol	Description	RL101G	RL102G	RL103G	RL104G	RL105G	RL106G	RL107G	Unit
$V_F$	Maximum Forward Voltage @ $I_F=1.0A$	1.1							V
$I_R$	Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_A=25^{\circ}C$			5.0			$\mu A$	
		$T_A=100^{\circ}C$			50			$\mu A$	
$C_J$	Typical Junction Capacitance (Note2)	15							pf
$R_{\theta-JA}$	Maximum Thermal Resistance (Note3)	50							$^{\circ}C/W$

- 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

Fig.1- Forward Current Derating Curve

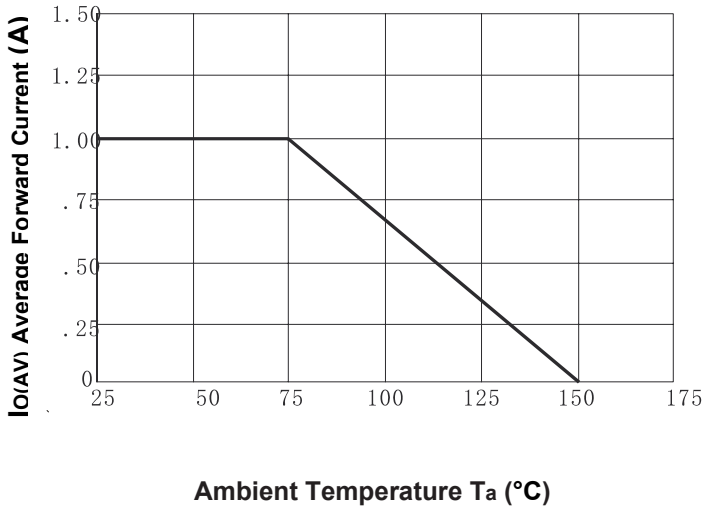
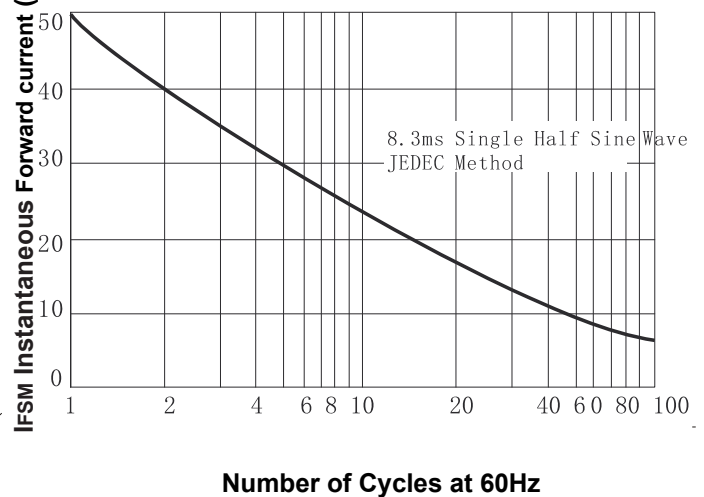


Fig.2-Max. Non-Repetitive Forward Surge Current



# 1.0A Glass Passivated Rectifier

## RL101G - RL107G

Fig.3-Typical Instantaneous Forward Characteristics

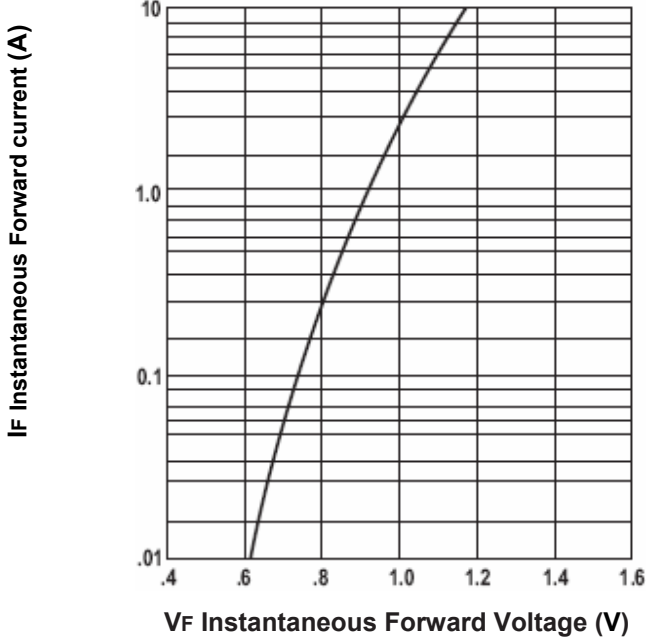


Fig.4- Typical Reverse Characteristics

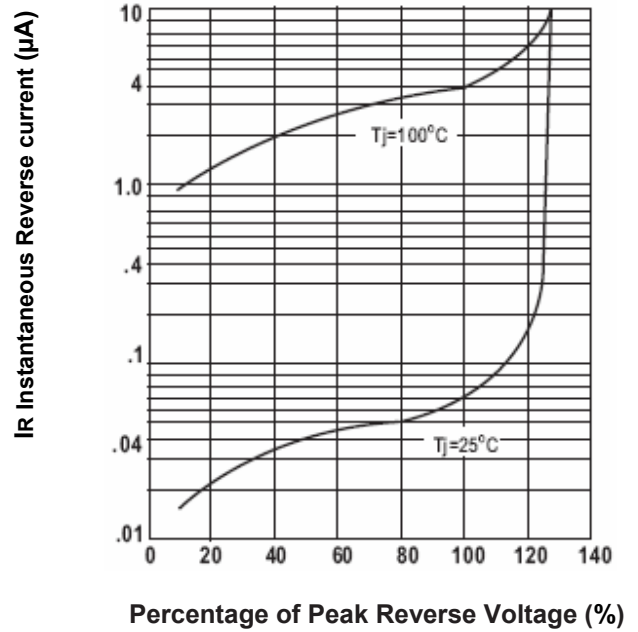
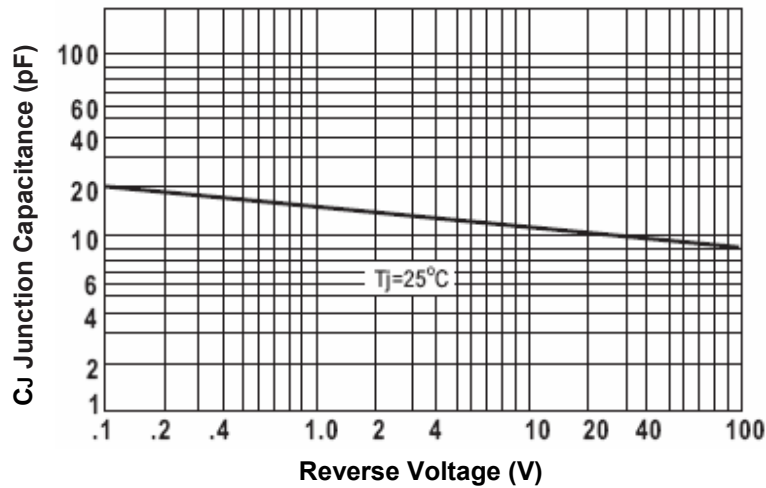


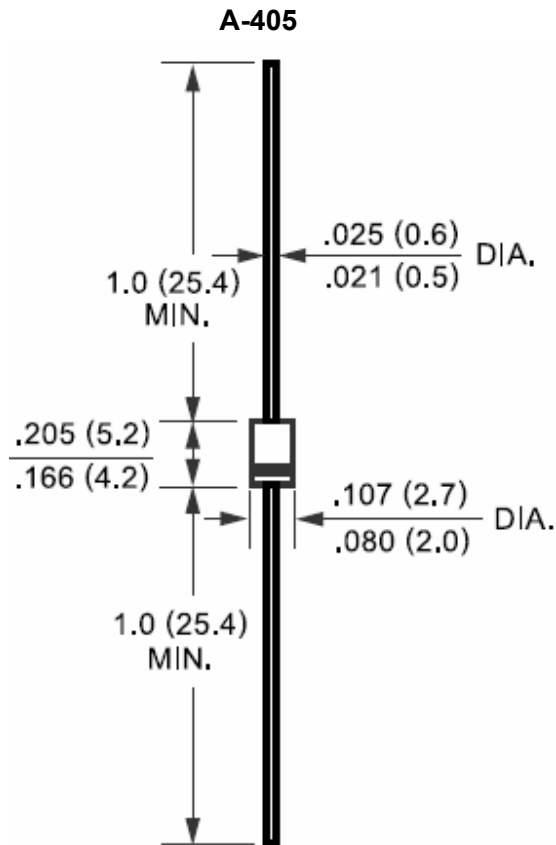
Fig.5-Typical junction capacitance



# 1.0A Glass Passivated Rectifier

RL101G - RL107G

Dimensions in inches (mm)



# 1.0A Glass Passivated Rectifier

RL101G - RL107G

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