

## 1A Sintered Glass Passivated Standard Rectifier

### Features

- Sintered glass passivated (SGP®) rectifier chip
- For surface mount applications
- Low leakage current



### Mechanical Data

<b>Case:</b>	JEDEC MiniMelf molded plastic
<b>Epoxy:</b>	Plastic package has UL flammability classification 94V-0
<b>Terminals:</b>	Solder plated solderable per MIL-STD-750, Method 2026
<b>Polarity:</b>	Cathode end indicated by color band
<b>Weight:</b>	0.0014 ounce, 0.036 gram

MiniMelf

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

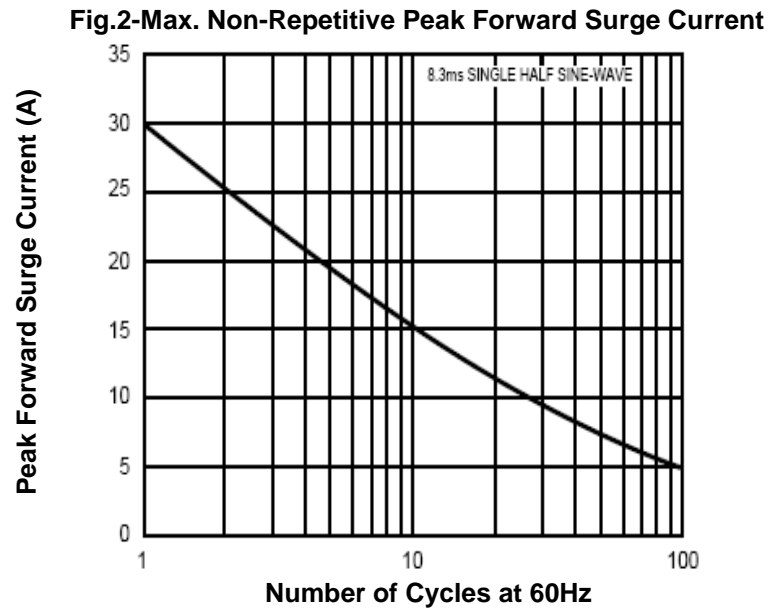
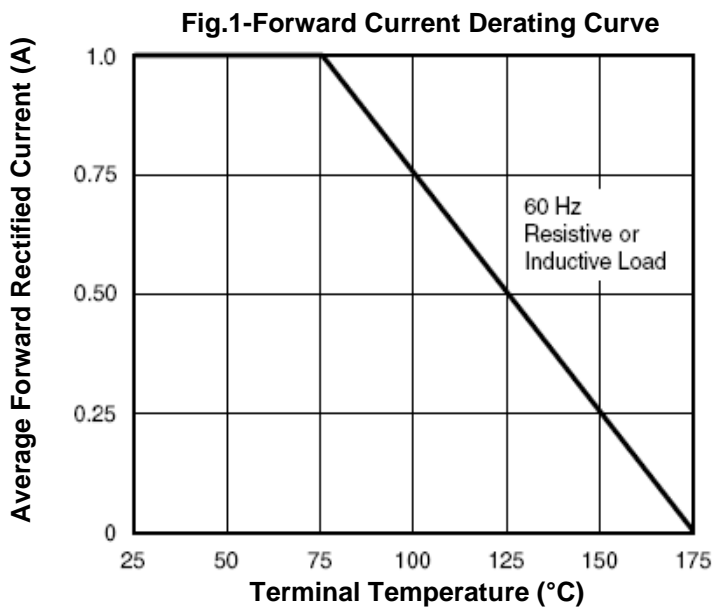
Symbol	Description	GL34A	GL34B	GL34D	GL34G	GL34J	GL34K	GL34M	Unit	Conditions
<b>VRRM</b>	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
<b>VRMS</b>	Maximum RMS Voltage	35	70	140	280	420	560	700	V	
<b>VDC</b>	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
<b>IF(AV)</b>	Maximum Average Forward Rectified Current	1.0							A	$T_T=75^{\circ}C$
<b>IFSM</b>	Peak Forward Surge Current	30							A	8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
<b>VF</b>	Maximum Instantaneous Forward Voltage	1.0							V	$I_F=1.0A$
<b>IR</b>	Maximum DC Reverse Current at Rated DC Blocking Voltage	5							$\mu A$	$T_A=25^{\circ}C$
		50								$T_A=125^{\circ}C$
<b>CJ</b>	Typical Junction Capacitance	15							pF	$V_R=4V, f=1MHz$
<b>RthJA</b>	Typical Thermal Resistance	150							$^{\circ}C / W$	Note 1
<b>RthJL</b>		70								Note 2
<b>TJ, TSTG</b>	Operating Junction and Storage Temperature Range	-65 to +175							$^{\circ}C$	

# 1A Sintered Glass Passivated Standard Rectifier (SGP®)

## GL34A - GL34M

- Note:** 1. Thermal resistance from junction to ambient, 0.24 x 0.24" (6.0 x 6.0mm) copper pads to each terminals  
2. Thermal resistance from junction to lead, 0.24 x 0.24" (6.0 x 6.0mm) copper pads to each terminals

### Typical Characteristics Curves



# 1A Sintered Glass Passivated Standard Rectifier (SGP<sup>®</sup>)

## GL34A - GL34M

Fig.3- Typical Instantaneous Forward Characteristics

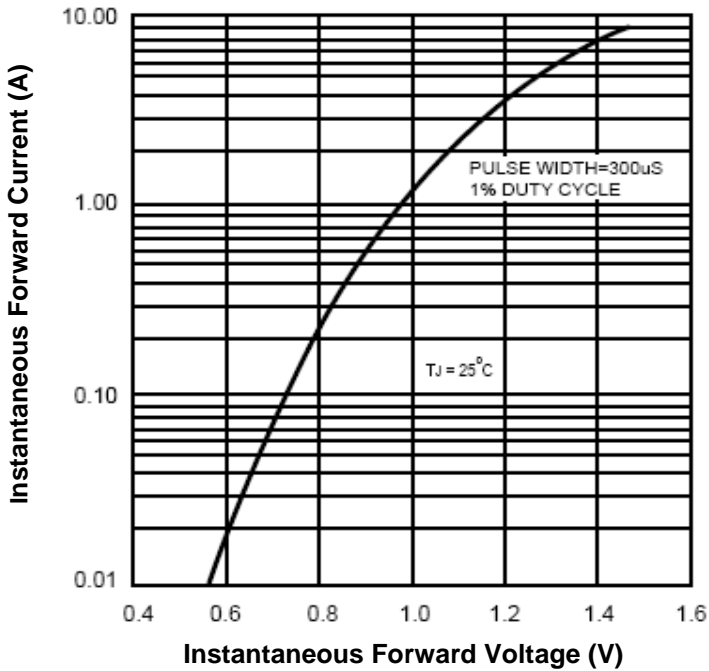


Fig.4-Typical Reverse Characteristics

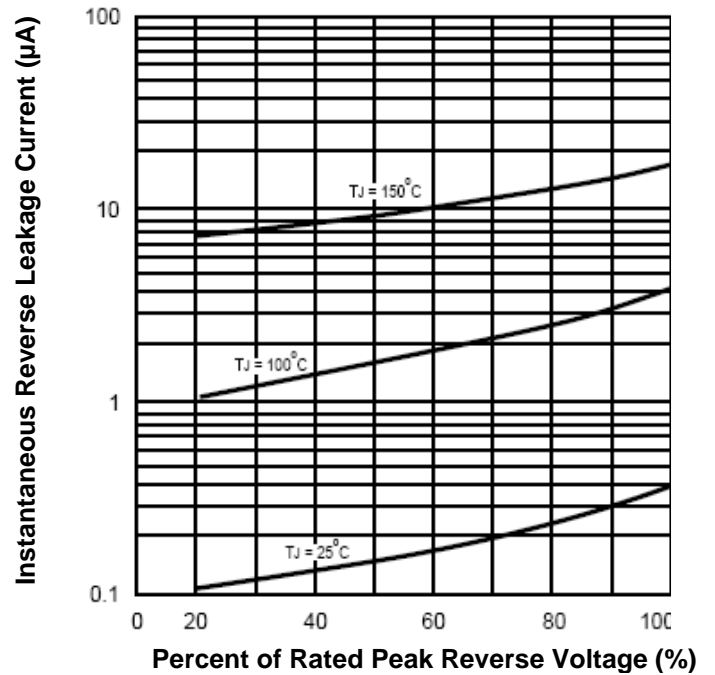


Fig.5- Typical Junction Capacitance

