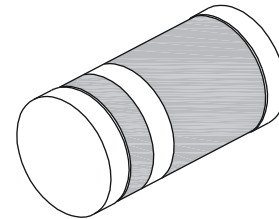


## 1.0A Glass Passivated Fast Recovery Rectifier

### Features

- For Surface Mount Applications
- Glass Passivated Junction
- Exceeds Environmental Standards of MIL-S-19500/228
- High Temperature Soldering Guarantee: 250°C/10secs



MELF

### Mechanical Data

<b>Case:</b>	Molded plastic body
<b>Epoxy:</b>	Meets UL 94V-0 flammability rating
<b>Terminals:</b>	Solderable End, Per MIL-STD-750, Method 2026
<b>Weight:</b>	0.15 grams

### Maximum Ratings and Electrical Characteristics ( $T_A=25^\circ\text{C}$ unless noted otherwise)

Symbol	Parameter	MLL4933	MLL4934	MLL4935	MLL4936	MLL4937	Units
<b>VRRM</b>	Max. Recurrent Peak Reverse Voltage	50	100	200	400	600	V
<b>VRMS</b>	Max. RMS Voltage	35	70	140	280	420	V
<b>VDC</b>	Max. DC Blocking Voltage	50	100	200	400	600	V
<b>IO</b>	Max. Average Forward Output Rectified Current @ $T_L=50^\circ\text{C}$	1.0					A
<b>Trr</b>	Max. Recovery Time (Note 1)	200					ns
<b>IFSM</b>	Peak Forward Surge Current (Note 2)	30					A
<b>VF</b>	Max. Instantaneous Forward Voltage Drop @ $I_O=1\text{A}$	1.3					V
<b>IR</b>	Max. DC Reverse Current at Rated DC Blocking Voltage	$T_A=25^\circ\text{C}$					uA
		$T_A=100^\circ\text{C}$					
<b>CJ</b>	Typical Junction Capacitance (Note 3)	15					pF
<b>RθJA</b>	Max. Thermal Resistance	80					°C/W
<b>TJ</b>	Operating Temperature Range	-55 to +125					°C

# 1.0A Glass Passivated Fast Recovery Rectifier

## MLL4933 - MLL4937

### Notes:

1. Reverse recovery test condition:  $I_F=1.0A, V_R=30V, di/dt=50A/\mu s$ , and  $I_{rr}=10\% I_{RM}$  for measurement of  $T_{rr}$
2. 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)
3. Measured at 1MHz and applied reverse voltage of 4.0VDC

### Typical Characteristics ( $T_{ambient} = 25^\circ C$ unless otherwise specified)

Fig. 1 Forward Derating Curve

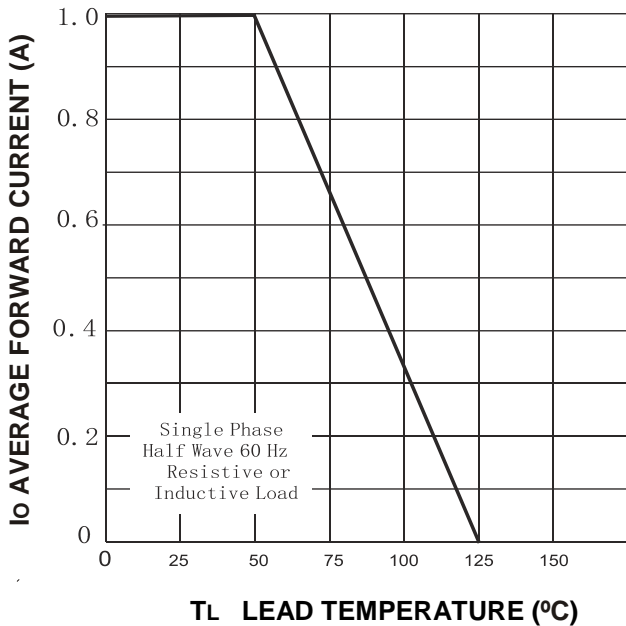


Fig. 2 Junction Capacitance vs Reverse Voltage

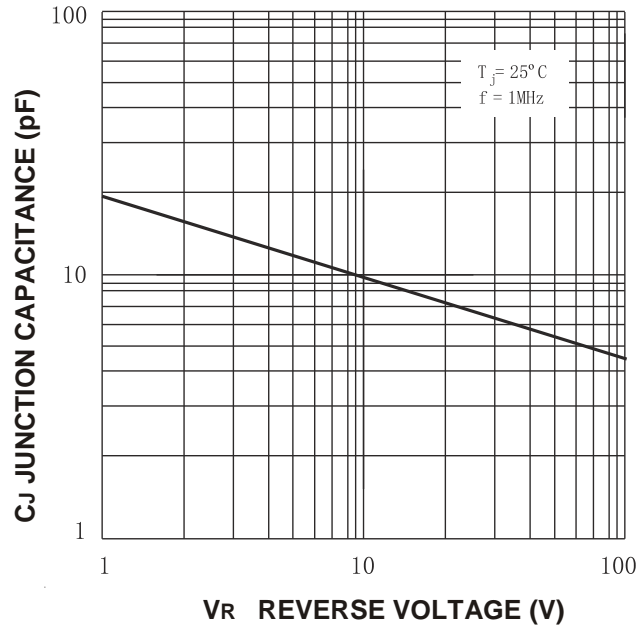


Fig. 3 Peak Fwd Surge Current

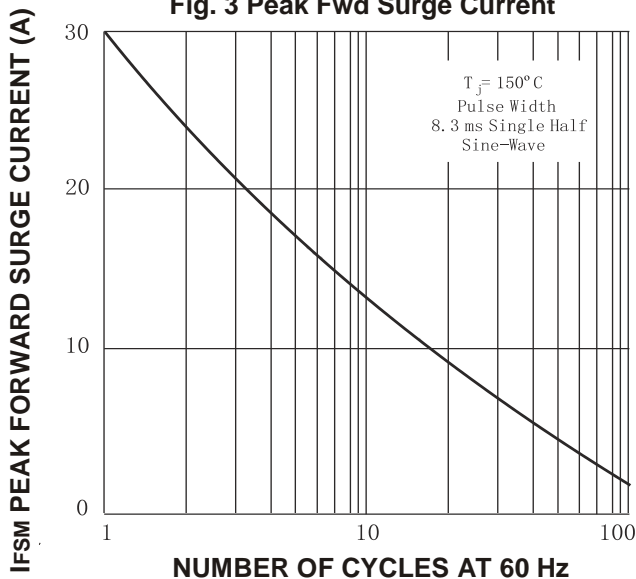
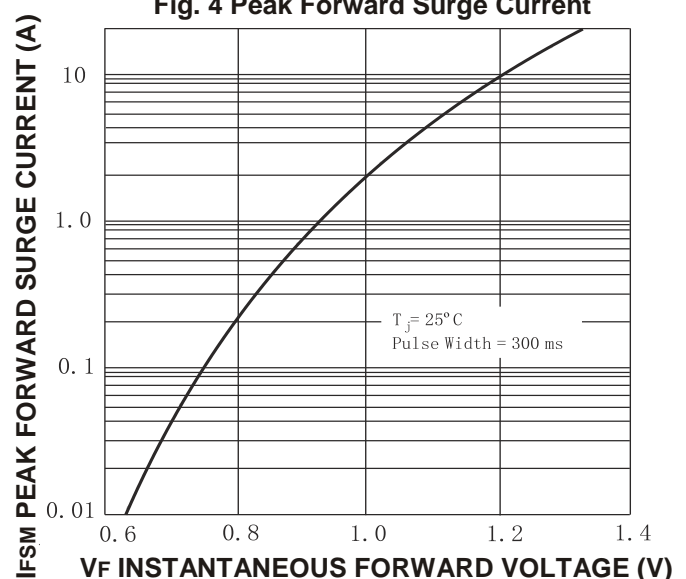


Fig. 4 Peak Forward Surge Current

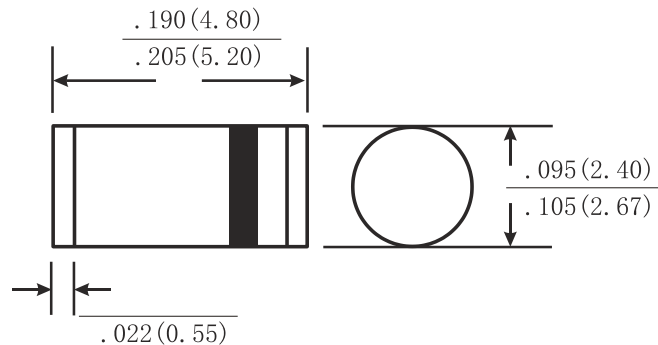


# 1.0A Glass Passivated Fast Recovery Rectifier

MLL4933 - MLL4937

Dimensions in inch (mm)

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