

CentralTM Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

1N4933GPP SERIES

GLASS PASSIVATED JUNCTION
FAST RECOVERY RECTIFIER
1.0 AMP, 50 THRU 600 VOLTS

JEDEC DO-41 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR 1N4933GPP Series types are 1.0 Amp Glass Passivated Junction Fast Recovery Silicon Rectifiers which are high quality, well constructed, highly reliable components designed for high speed switching applications. **THIS DEVICE IS MANUFACTURED WITH A GLASS PASSIVATED CHIP FOR OPTIMUM RELIABILITY.**
Note: Higher voltage devices are available in the CR1F-010GPP series.

MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise noted)

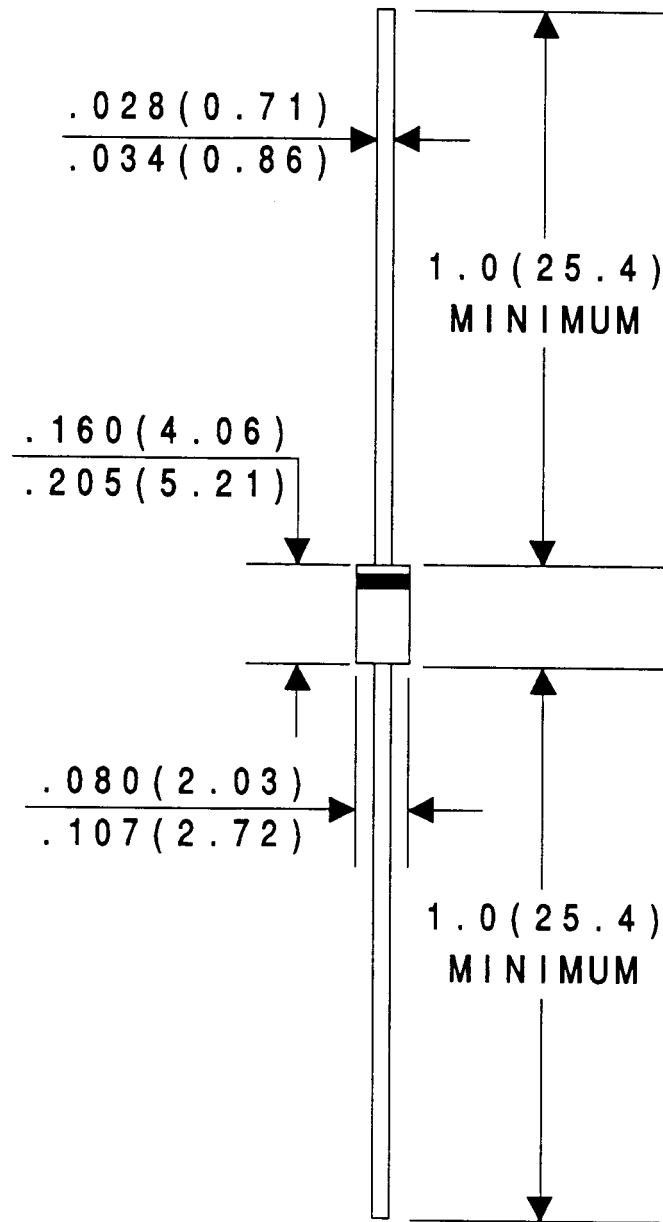
| | <u>SYMBOL</u> | <u>1N4933</u> <u>GPP</u> | <u>1N4934</u> <u>GPP</u> | <u>1N4935</u> <u>GPP</u> | <u>1N4936</u> <u>GPP</u> | <u>1N4937</u> <u>GPP</u> | <u>UNITS</u> |
|---|----------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------|
| Peak Repetitive Reverse Voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | V |
| DC Blocking Voltage | V_R | 50 | 100 | 200 | 400 | 600 | V |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 35 | 70 | 140 | 280 | 420 | V |
| Average Forward Current ($T_A=75^\circ\text{C}$) | I_O | | | 1.0 | | | A |
| Peak Forward Surge Current ($T_A=75^\circ\text{C}$) | I_{FSM} | | | 30 | | | A |
| Operating and Storage | | | | | | | |
| Junction Temperature | T_J, T_{stg} | | | -65 to +175 | | | $^\circ\text{C}$ |
| Thermal Resistance | θ_{JA} | | | 50 | | | $^\circ\text{C/W}$ |

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise noted)

| <u>SYMBOL</u> | <u>TEST CONDITIONS</u> | <u>MIN</u> | <u>TYP</u> | <u>MAX</u> | <u>UNITS</u> |
|---------------|--|------------|------------|------------|---------------|
| V_F | $I_F=1.0\text{A}$ | | | 1.3 | V |
| I_R | $V_R=\text{Rated } V_{RRM}$ | | | 5.0 | μA |
| I_R | $V_R=\text{Rated } V_{RRM}, T_A=125^\circ\text{C}$ | | | 100 | μA |
| t_{rr} | $I_F=1.0\text{A}, V_R=30\text{V}$ | | | 200 | ns |
| C_J | $V_R=4.0\text{V}, f=1.0\text{MHz}$ | | 15 | | pF |

(SEE REVERSE FOR MECHANICAL OUTLINE)

JEDEC DO-41 CASE - MECHANICAL OUTLINE



All Dimensions in Inches (mm).