Central Semiconductor Corp.
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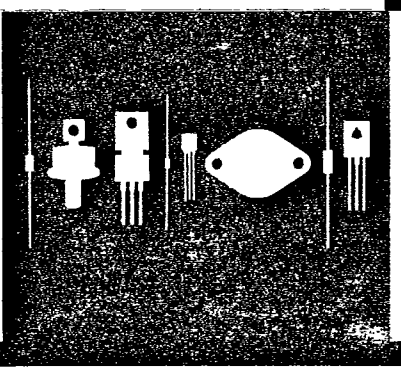
145 Adams Avenue
Hauppauge, New York 11788



# 1N5615
# 1N5617
# 1N5619
# 1N5621
# 1N5623

FAST RECOVERY
GLASS PASSIVATED RECTIFIER
1.0 AMPS, 200-1000 VOLTS
GPR-1A CASE

## DESCRIPTION

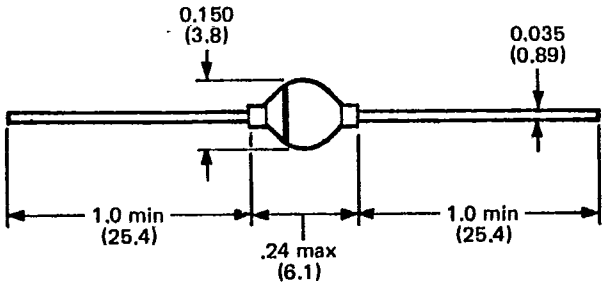
The CENTRAL SEMICONDUCTOR 1N5615 Series types are Silicon Rectifiers mounted in a hermetically sealed, glass passivated package designed for general applications where Fast Reverse Recovery Times and high reliability is desired.

## MAXIMUM RATINGS ($T_A$=25°C unless otherwise noted)

| | SYMBOL | 1N5615 | 1N5617 | 1N5619 | 1N5621 | 1N5623 | UNIT |
|---|---|---|---|---|---|---|---|
| Peak Repetitive Reverse Voltage | $V_{RRM}$ | 200 | 400 | 600 | 800 | 1000 | V |
| DC Blocking Voltage | $V_R$ | 200 | 400 | 600 | 800 | 1000 | V |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 140 | 280 | 420 | 560 | 700 | V |
| Average Forward Current ($T_A$=55°C) | $I_O$ | | | 1.0 | | | A |
| Peak Forward Surge Current | $I_{FSM}$ | | | 50 | | | A |
| Operating and Storage Junction Temperature | $T_J$,$T_{stg}$ | | | -65 TO +200 | | | °C |

## ELECTRICAL CHARACTERISTICS ($T_A$=25°C unless otherwise noted)

| SYMBOL | TEST CONDITIONS | MIN | MAX | UNIT |
|---|---|---|---|---|
| $I_R$ | $V_R$=Rated $V_{RRM}$ | | 0.5 | μA |
| $I_R$ | $V_R$=Rated $V_{RRM}$, $T_A$=100°C | | 25 | μA |
| $V_F$ | $I_F$=1.0A | | 1.2 | V |
| $BV_R$ | $I_R$=50μA (1N5615) | 220 | | V |
| $BV_R$ | $I_R$=50μA (1N5617) | 440 | | V |
| $BV_R$ | $I_R$=50μA,(1N5619) | 660 | | V |
| $BV_R$ | $I_R$=50μA (1N5621) | 880 | | V |
| $BV_R$ | $I_R$=50μA (1N5623) | 1100 | | V |
| C | $V_R$=12V, f=130kHz | | 35 | pF |
| $t_{rr}$ | $I_F$=0.5A, $I_R$=1.0A,Recov. to 0.25A(1N5615,1N5617) | | 150 | ns |
| $t_{rr}$ | $I_F$=0.5A, $I_R$=1.0A,Recov. to 0.25A(1N5619) | | 250 | ns |
| $t_{rr}$ | $I_F$=0.5A, $I_R$=1.0A,Recov. to 0.25A(1N5621) | | 300 | ns |
| $t_{rr}$ | $I_F$=0.5A, $I_R$=1.0A,Recov. to 0.25A(1N5623) | | 500 | ns |




DIMENSIONS IN INCHES (MILLIMETERS)