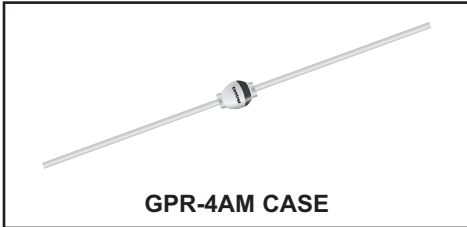


1N5550 1N5553
 1N5551 1N5554
 1N5552

**GLASS PASSIVATED
 SILICON RECTIFIERS
 3.0 AMP, 200 THRU 1000 VOLT**



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 1N5550 series types are silicon rectifiers mounted in a hermetically sealed, glass passivated package designed for general purpose applications where high reliability is required.

MARKING: FULL PART NUMBER

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

| | SYMBOL | 1N5550 | 1N5551 | 1N5552 | 1N5553 | 1N5554 | UNITS |
|--|----------------|--------|--------|-------------|--------|--------|--------------------|
| 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 ($T_A=55^\circ\text{C}$) | I_O | | | 3.0 | | | A |
| Peak Forward Surge Current, $t_p=8.3\text{ms}$ | I_{FSM} | | | 100 | | | A |
| Operating and Storage Junction Temperature | T_J, T_{stg} | | | -65 to +200 | | | $^\circ\text{C}$ |
| Thermal Resistance (Note 1) | Θ_{JL} | | | 30 | | | $^\circ\text{C/W}$ |

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

| SYMBOL | TEST CONDITIONS | MIN | MAX | UNITS |
|----------|---|------|-----|---------------|
| I_R | $V_R=\text{Rated } V_{RRM}$ | | 1.0 | μA |
| I_R | $V_R=\text{Rated } V_{RRM}, T_A=100^\circ\text{C}$ | | 75 | μA |
| V_F | $I_F=3.0\text{A}$ (200V thru 600V) | | 1.0 | V |
| V_F | $I_F=3.0\text{A}$ (800V thru 1000V) | | 1.1 | V |
| BV_R | $I_R=50\mu\text{A}$ (1N5550) | 240 | | V |
| BV_R | $I_R=50\mu\text{A}$ (1N5551) | 460 | | V |
| BV_R | $I_R=50\mu\text{A}$ (1N5552) | 660 | | V |
| BV_R | $I_R=50\mu\text{A}$ (1N5553) | 880 | | V |
| BV_R | $I_R=50\mu\text{A}$ (1N5554) | 1100 | | V |
| t_{rr} | $I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$ (200V thru 600V) | | 2.0 | μs |
| t_{rr} | $I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$ (800V thru 1000V) | | 4.0 | μs |

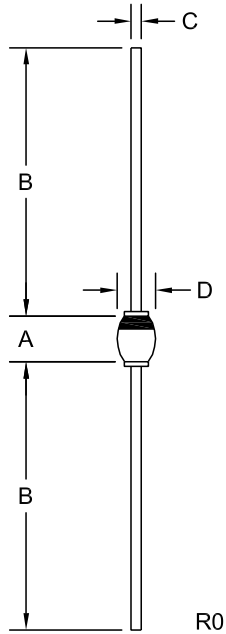
Notes: (1) At 0.375 inch (9.52mm) lead length from body.

1N5550 1N5553
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GLASS PASSIVATED
 SILICON RECTIFIERS
 3.0 AMP, 200 THRU 1000 VOLT

GPR-4AM CASE - MECHANICAL OUTLINE



| SYMBOL | INCHES | | MILLIMETERS | |
|--------|--------|-------|-------------|------|
| | MIN | MAX | MIN | MAX |
| A | 0.165 | 0.189 | 4.20 | 4.80 |
| B | 1.024 | -- | 26.00 | -- |
| C | 0.037 | 0.042 | 0.95 | 1.06 |
| D | 0.130 | 0.175 | 3.30 | 4.45 |

GPR-4AM (REV: R0)

R2 (27-February 2013)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

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