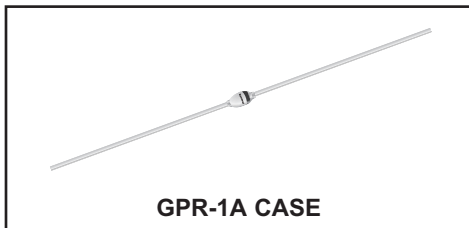


1N5059 1N5061
1N5060 1N5062

**GLASS PASSIVATED
SILICON RECTIFIERS
1.0 AMP, 200 THRU 800 VOLT**



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 1N5059 series types are silicon rectifiers manufactured in a hermetically sealed, glass passivated package, designed for general purpose applications where high reliability is desired. Higher voltage devices are available in the CPR1-010 series.

MARKING: FULL PART NUMBER

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

| | SYMBOL | 1N5059 | 1N5060 | 1N5061 | 1N5062 | UNITS |
|--|----------------|---------------|---------------|---------------|---------------|--------------------|
| Peak Repetitive Reverse Voltage | V_{RRM} | 200 | 400 | 600 | 800 | V |
| DC Blocking Voltage | V_R | 200 | 400 | 600 | 800 | V |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 140 | 280 | 420 | 560 | V |
| Average Forward Current ($T_A=75^\circ\text{C}$) | I_O | | | 1.0 | | A |
| Peak Forward Surge Current, $t_p=8.3\text{ms}$ | I_{FSM} | | | 40 | | A |
| Operating and Storage Junction Temperature | T_J, T_{stg} | | | -65 to +175 | | $^\circ\text{C}$ |
| Thermal Resistance | Θ_{JA} | | | 40 | | $^\circ\text{C/W}$ |

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

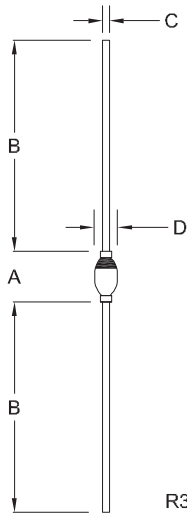
| SYMBOL | TEST CONDITIONS | MAX | UNITS |
|---------------|---|------------|---------------|
| I_R | $V_R=\text{Rated } V_{RRM}$ | 5.0 | μA |
| I_R | $V_R=\text{Rated } V_{RRM}, T_A=175^\circ\text{C}$ (1N5059, 1N5060) | 300 | μA |
| I_R | $V_R=\text{Rated } V_{RRM}, T_A=175^\circ\text{C}$ (1N5061, 1N5062) | 200 | μA |
| V_F | $I_F=1.0\text{A}$ | 1.2 | V |
| C_J | $V_R=4.0\text{V}, f=1.0\text{MHz}$ | 15 | pF |

1N5059 1N5061
1N5060 1N5062

GLASS PASSIVATED
SILICON RECTIFIERS
1.0 AMP, 200 THRU 800 VOLT



GPR-1A CASE - MECHANICAL OUTLINE



| SYMBOL | INCHES | | MILLIMETERS | |
|--------|--------|-------|-------------|------|
| | MIN | MAX | MIN | MAX |
| A | - | 0.240 | - | 6.10 |
| B | 1.000 | - | 25.40 | - |
| C | 0.028 | 0.034 | 0.71 | 0.86 |
| D | 0.070 | 0.150 | 1.80 | 3.81 |

GPR-1A (REV: R3)

MARKING: FULL PART NUMBER

R5 (28-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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