

1N5059 1N5061  
1N5060 1N5062

GLASS PASSIVATED  
SILICON RECTIFIERS  
1.0 AMP, 200 THRU 800 VOLT



GPR-1A CASE



[www.centrasemi.com](http://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	$\Theta_{JA}$		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	$\mu\text{A}$
$I_R$	$V_R=\text{Rated } V_{RRM}, T_A=175^{\circ}\text{C}$ (1N5059, 1N5060)	300	$\mu\text{A}$
$I_R$	$V_R=\text{Rated } V_{RRM}, T_A=175^{\circ}\text{C}$ (1N5061, 1N5062)	200	$\mu\text{A}$
$V_F$	$I_F=1.0\text{A}$	1.2	V
$C_J$	$V_R=4.0\text{V}, f=1.0\text{MHz}$	15	pF

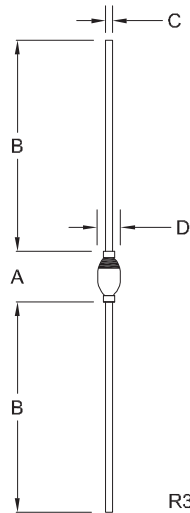
R5 (28-February 2013)

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#### GPR-1A CASE - MECHANICAL OUTLINE



DIMENSIONS				
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)

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## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### 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

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### DESIGNER SUPPORT/SERVICES

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

- Free quick ship samples (2<sup>nd</sup> 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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### REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

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### CONTACT US

#### Corporate Headquarters & Customer Support Team

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