

查询"CPR5U-060"供应商

CPR5U-020  
CPR5U-040  
CPR5U-060

GLASS PASSIVATED ULTRA FAST  
RECOVERY RECTIFIERS  
5.0 AMP, 200 THRU 600 VOLTS



GPR-4AM CASE

**Central**<sup>TM</sup>  
Semiconductor Corp.

#### DESCRIPTION:

The CENTRAL SEMICONDUCTOR CPR5U Series are silicon rectifiers manufactured in a hermetically sealed, glass passivated package designed for use in all types of commercial, industrial, entertainment and automotive applications where ultra fast switching speeds are required.

#### MARKING: FULL PART NUMBER

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

|                                                | SYMBOL         | -020 | -040        | -060 | UNITS              |
|------------------------------------------------|----------------|------|-------------|------|--------------------|
| Peak Repetitive Reverse Voltage                | $V_{RRM}$      | 200  | 400         | 600  | V                  |
| DC Blocking Voltage                            | $V_R$          | 200  | 400         | 600  | V                  |
| RMS Reverse Voltage                            | $V_{R(RMS)}$   | 140  | 280         | 420  | V                  |
| Average Forward Current                        | $I_O$          |      | 5.0         |      | A                  |
| Peak Forward Surge Current, $t_p=8.3\text{ms}$ | $I_{FSM}$      |      | 125         |      | A                  |
| Operating and Storage Junction Temperature     | $T_J, T_{stg}$ |      | -65 to +175 |      | $^\circ\text{C}$   |
| Thermal Resistance                             | $\theta_{JA}$  |      | 55          |      | $^\circ\text{C/W}$ |

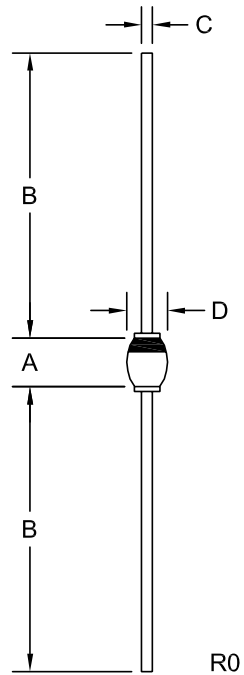
ELECTRICAL CHARACTERISTICS: ( $T_A=25^\circ\text{C}$  unless otherwise noted)

| SYMBOL   | TEST CONDITIONS                                         | MIN | TYP  | MAX  | UNITS         |
|----------|---------------------------------------------------------|-----|------|------|---------------|
| $I_R$    | $V_R=\text{Rated } V_{RRM}$                             |     | 0.5  | 5.0  | $\mu\text{A}$ |
| $I_R$    | $V_R=\text{Rated } V_{RRM}, T_A=100^\circ\text{C}$      |     |      | 50   | $\mu\text{A}$ |
| $V_F$    | $I_F=3.0\text{A}$                                       |     | 1.10 | 1.25 | V             |
| $V_F$    | $I_F=3.0\text{A}, T_A=100^\circ\text{C}$                |     |      | 1.15 | V             |
| $V_F$    | $I_F=5.0\text{A}$                                       |     | 1.20 | 1.40 | V             |
| $V_F$    | $I_F=5.0\text{A}, T_A=100^\circ\text{C}$                |     |      | 1.30 | V             |
| $C_J$    | $V_R=4.0\text{V}, f=1.0\text{MHz}$                      |     |      | 100  | pF            |
| $t_{rr}$ | $I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$ |     | 25   | 50   | ns            |

R2 (6-May 2008)

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**GPR-4AM - MECHANICAL OUTLINE**



| DIMENSIONS |        |       |             |      |
|------------|--------|-------|-------------|------|
| 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)

**MARKING CODE: FULL PART NUMBER**

R2 (6-May 2008)