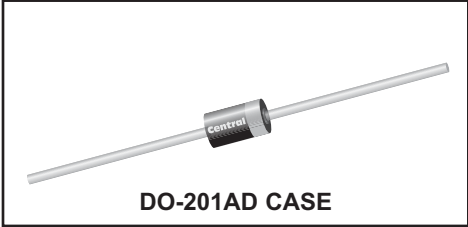


**CR3-005GPP SERIES**  
**GLASS PASSIVATED JUNCTION**  
**GENERAL PURPOSE**  
**SILICON RECTIFIER**  
**3 AMP, 50 THRU 1200 VOLTS**



[www.centrasemi.com](http://www.centrasemi.com)

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CR3-005GPP Series types are 3.0 Amp Glass Passivated Junction Silicon Rectifiers which are high quality, well constructed, highly reliable components designed for use in all types of military, commercial, industrial, entertainment, computer, and automotive applications.

**THIS DEVICE IS MANUFACTURED WITH A GLASS PASSIVATED CHIP FOR OPTIMUM RELIABILITY.**

**MARKING: FULL PART NUMBER**

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

|  |                | CR3<br>-005 | CR3<br>-010 | CR3<br>-020 | CR3<br>-040 | CR3<br>-060 | CR3<br>-080 | CR3<br>-100 | CR3<br>-120 |                      |
|--|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------------|
|  | SYMBOL         | GPP         | GPP         | GPP         | GPP         | GPP         | GPP         | GPP         | GPP         | UNITS                |
| Peak Repetitive Reverse Voltage                      | $V_{RRM}$      | 50          | 100         | 200         | 400         | 600         | 800         | 1000        | 1200        | V                    |
| DC Blocking Voltage                                  | $V_R$          | 50          | 100         | 200         | 400         | 600         | 800         | 1000        | 1200        | V                    |
| RMS Reverse Voltage                                  | $V_{R(RMS)}$   | 35          | 70          | 140         | 280         | 420         | 560         | 700         | 840         | V                    |
| Average Forward Current ( $T_A=55^{\circ}\text{C}$ ) | $I_O$          |             |             |             |             | 3.0         |             |             |             | A                    |
| Peak Forward Surge Current                           | $I_{FSM}$      |             |             |             |             | 150         |             |             |             | A                    |
| Operating and Storage<br>Junction Temperature        | $T_J, T_{stg}$ |             |             |             |             | -65 to +150 |             |             |             | $^{\circ}\text{C}$   |
| Thermal Resistance                                   | $\theta_{JA}$  |             |             |             |             | 20          |             |             |             | $^{\circ}\text{C/W}$ |

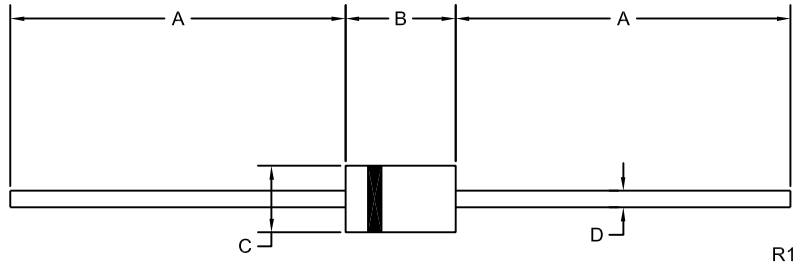
**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

| SYMBOL | TEST CONDITIONS                                      | TYP | MAX | UNITS         |
|--------|--|-----|-----|---------------|
| $I_R$  | $V_R=\text{Rated } V_{RRM}$                          |     | 5.0 | $\mu\text{A}$ |
| $I_R$  | $V_R=\text{Rated } V_{RRM}, T_A=100^{\circ}\text{C}$ |     | 100 | $\mu\text{A}$ |
| $V_F$  | $I_F=3.0\text{A}$                                    |     | 1.2 | V             |
| $C_J$  | $V_R=4.0\text{V}, f=1.0\text{MHz}$                   | 30  | 50  | pF            |

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DO-201AD CASE - MECHANICAL OUTLINE



| SYMBOL | DIMENSIONS |       |             |      |
|--------|------------|-------|-------------|------|
|        | INCHES     |       | MILLIMETERS |      |
|        | MIN        | MAX   | MIN         | MAX  |
| A      | 1.000      | -     | 25.40       | -    |
| B      | 0.283      | 0.375 | 7.20        | 9.53 |
| C      | 0.189      | 0.210 | 4.80        | 5.33 |
| D      | 0.047      | 0.052 | 1.20        | 1.32 |

DO-201AD (REV: R1)

MARKING: FULL PART NUMBER

R4 (24-October 2011)