

## **Excellent Integrated System Limited**

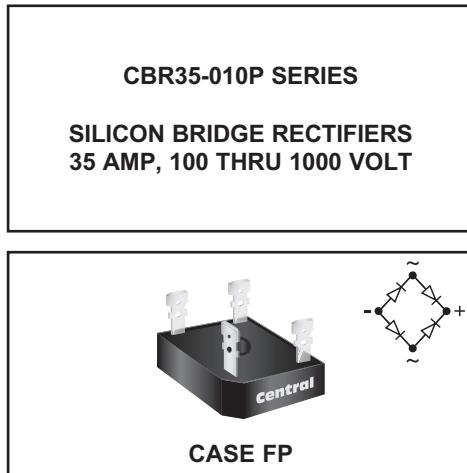
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[Central Semiconductor Corp](#)  
[CBR35-010P](#)

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**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CBR35-010P series devices are silicon, single phase, full wave bridge rectifiers designed for general purpose applications. The molded epoxy case has a built-in metal baseplate for heat sink mounting. The device utilizes standard 0.25" FASTON terminals.

**MARKING: FULL PART NUMBER**

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

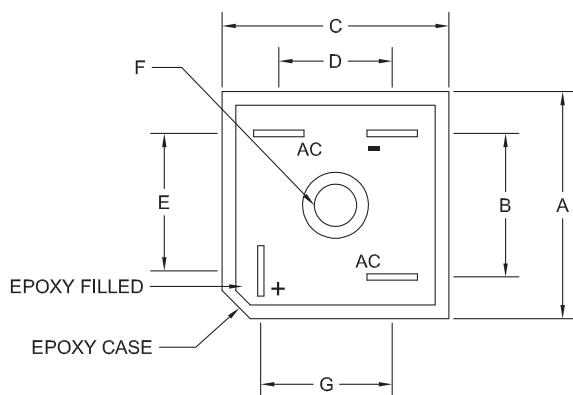
|  | SYMBOL         | -010P | -020P | -040P       | -060P | -080P | -100P | UNITS                     |
|--|----------------|-------|-------|-------------|-------|-------|-------|---------------------------|
| Peak Repetitive Reverse Voltage                    | $V_{RRM}$      | 100   | 200   | 400         | 600   | 800   | 1000  | V                         |
| DC Blocking Voltage                                | $V_R$          | 100   | 200   | 400         | 600   | 800   | 1000  | V                         |
| RMS Reverse Voltage                                | $V_{R(RMS)}$   | 70    | 140   | 280         | 420   | 560   | 700   | V                         |
| Average Forward Current ( $T_C=60^\circ\text{C}$ ) | $I_O$          |       |       | 35          |       |       |       | A                         |
| Peak Forward Surge Current                         | $I_{FSM}$      |       |       | 400         |       |       |       | A                         |
| $I^2t$ Rating for Fusing (1ms < $t$ < 8.3ms)       | $I^2t$         |       |       | 660         |       |       |       | $\text{A}^2\text{s}$      |
| RMS Isolation Voltage (case to lead)               | $V_{iso}$      |       |       | 2500        |       |       |       | Vac                       |
| Operating and Storage                              |                |       |       |             |       |       |       |                           |
| Junction Temperature                               | $T_J, T_{stg}$ |       |       | -65 to +150 |       |       |       | $^\circ\text{C}$          |
| Thermal Resistance                                 | $\Theta_{JC}$  |       |       | 1.4         |       |       |       | $^\circ\text{C}/\text{W}$ |

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

| SYMBOL | TEST CONDITIONS                                  | TYP | MAX | UNITS         |
|--------|--|-----|-----|---------------|
| $I_R$  | $V_R$ =Rated $V_{RRM}$                           |     | 10  | $\mu\text{A}$ |
| $I_R$  | $V_R$ =Rated $V_{RRM}$ , $T_A=125^\circ\text{C}$ |     | 500 | $\mu\text{A}$ |
| $V_F$  | $I_F=17.5\text{A}$                               |     | 1.2 | V             |
| $C_J$  | $V_R=4.0\text{V}$ , $f=1.0\text{MHz}$            | 300 |     | pF            |



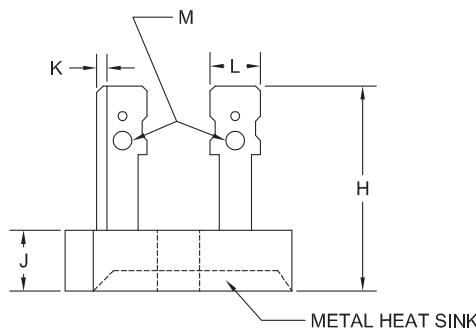
**CASE FP - MECHANICAL OUTLINE**



| SYMBOL   | INCHES |       | MILLIMETERS |       |
|----------|--------|-------|-------------|-------|
|          | MIN    | MAX   | MIN         | MAX   |
| A        | 1.115  | 1.135 | 28.32       | 28.83 |
| B        | 0.688  | 0.732 | 17.50       | 18.59 |
| C        | 1.115  | 1.135 | 28.32       | 28.83 |
| D        | 0.542  | 0.582 | 13.77       | 14.78 |
| E        | 0.618  | 0.672 | 15.70       | 17.07 |
| F (DIA.) | 0.200  | 0.220 | 5.08        | 5.59  |
| G        | 0.632  | 0.672 | 16.05       | 17.07 |
| H        | 0.740  | 0.849 | 18.80       | 21.58 |
| J        | 0.290  | 0.334 | 7.37        | 8.50  |
| K        | 0.027  | 0.035 | 0.71        | 0.91  |
| L        | 0.250  |       | 6.35        |       |
| M (DIA.) | 0.940  |       | 2.39        |       |

CASE FP (REV:R2)

**MARKING: FULL PART NUMBER**



R2

R3 (24-June 2013)

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