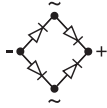
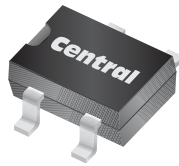


**CBR1-D020S SERIES****SURFACE MOUNT  
1 AMP  
SILICON BRIDGE RECTIFIER**
[www.centralemi.com](http://www.centralemi.com)
**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CBR1-D020S series types are silicon full wave bridge rectifiers mounted in a durable epoxy surface mount molded case, utilizing glass passivated chips.

NOTE: Also available in Fast Recovery, please contact factory for details.

**MARKING: FULL PART NUMBER****SMDIP CASE****MAXIMUM RATINGS:**

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

|                                                    | SYMBOL         | CBR1-D020S | CBR1-D040S | CBR1-D060S  | CBR1-D080S | CBR1-D100S | UNITS            |
|----------------------------------------------------|----------------|------------|------------|-------------|------------|------------|------------------|
| Peak Repetitive Reverse Voltage                    | $V_{RRM}$      | 200        | 400        | 600         | 800        | 1000       | V                |
| DC Blocking Voltage                                | $V_R$          | 200        | 400        | 600         | 800        | 1000       | V                |
| RMS Reve                                           | $V_{R(RMS)}$   | 140        | 280        | 420         | 560        | 700        | V                |
| Average Forward Current ( $T_A=50^\circ\text{C}$ ) | $I_O$          |            |            | 1.0         |            |            | A                |
| Peak Forward Surge Current                         | $I_{FSM}$      |            |            | 50          |            |            | A                |
| Rating for Fusing ( $t<8.35\text{ms}$ )            | $I^2t$         |            |            | 10          |            |            | A <sup>2</sup> s |
| Operating and Storage Junction Temperature         | $T_J, T_{stg}$ |            |            | -65 to +150 |            |            | $^\circ\text{C}$ |

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

| SYMBOL | TEST CONDITIONS                                    | MIN | TYP | MAX | UNITS         |
|--------|----------------------------------------------------|-----|-----|-----|---------------|
| $I_R$  | $V_R=\text{Rated } V_{RRM}$                        |     |     | 10  | $\mu\text{A}$ |
| $I_R$  | $V_R=\text{Rated } V_{RRM}, T_A=125^\circ\text{C}$ |     |     | 0.5 | mA            |
| $V_F$  | $I_F=1.0\text{A}$                                  |     |     | 1.1 | V             |
| $C_J$  | $V_R=4.0\text{V}, f=1.0\text{MHz}$                 |     | 25  |     | pF            |

**CBR1-D020S SERIES**

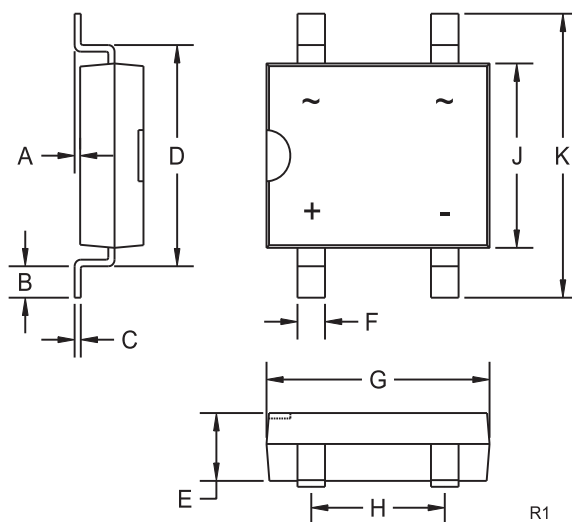
**SURFACE MOUNT**

**1 AMP**

**SILICON BRIDGE RECTIFIER**



**SMDIP CASE - MECHANICAL OUTLINE**



| SYMBOL | DIMENSIONS |       |             |       |
|--------|------------|-------|-------------|-------|
|        | INCHES     |       | MILLIMETERS |       |
|        | MIN        | MAX   | MIN         | MAX   |
| A      | 0.004      | 0.008 | 0.10        | 0.20  |
| B      | 0.040      | 0.060 | 1.02        | 1.52  |
| C      | 0.009      |       | 0.23        |       |
| D      | 0.290      | 0.310 | 7.37        | 7.87  |
| E      | 0.086      | 0.098 | 2.18        | 2.49  |
| F      | 0.038      | 0.042 | 0.97        | 1.07  |
| G      | 0.316      | 0.335 | 8.03        | 8.51  |
| H      | 0.195      | 0.205 | 4.95        | 5.21  |
| J      | 0.245      | 0.255 | 6.22        | 6.48  |
| K      | 0.360      | 0.410 | 9.14        | 10.41 |

SMDIP (REV: R1)

**MARKING: FULL PART NUMBER**

R3 (4-January 2010)



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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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### CONTACT US

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