

Silicon Bridge Rectifier

CBR1-D080S

800V / 1A

DATASHEET

OEM – Central Semiconductor Corp.

Source: Central Databook 2004

CBR1-D020S SERIES
SURFACE MOUNT
1 AMP DUAL IN LINE
SILICON BRIDGE RECTIFIER



CentralTM

Semiconductor Corp.

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 CODE: FULL PART NUMBER

MAXIMUM RATINGS (T_A=25°C)

| | 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 Reverse Voltage | V _{R(RMS)} | 140 | 280 | 420 | 560 | 700 | V |
| Average Forward Current (T _A =50°C) | I _O | | | 1.0 | | | A |
| Peak Forward Surge Current | I _{FSM} | | | 50 | | | A |
| Rating for Fusing (t<8.35ms) | I _ƒ | | | 10 | | | A²s |
| Operating and Storage | | | | | | | |
| Junction Temperature | T _J , T _{stg} | | | -65 to +150 | | | °C |

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

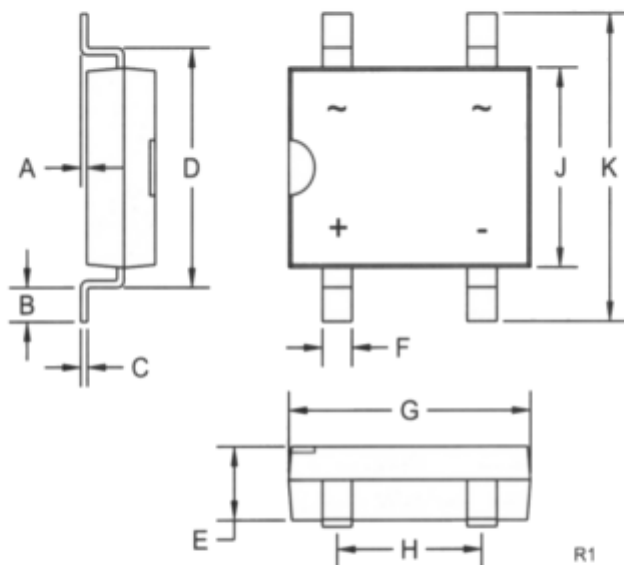
| SYMBOL | TEST CONDITIONS | MIN | TYP | MAX | UNITS |
|----------------|--|-----|-----|-----|-------|
| I _R | V _R =Rated V _{RRM} | | | 10 | μA |
| I _R | V _R =Rated V _{RRM} , T _A =125°C | | | 0.5 | mA |
| V _F | I _F =1.0A | | | 1.1 | V |
| C _J | V _R =4.0V, f=1.0MHz | | 25 | | pF |

For Typical Electrical Characteristic Data for this device, please see Process CPD05 on page 875.



CBR1-D020S SERIES
 SURFACE MOUNT
 1 AMP DUAL IN LINE
 SILICON BRIDGE RECTIFIER

SMDIP CASE - MECHANICAL OUTLINE



MARKING CODE:
 FULL PART NUMBER

| SYMBOL | 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)

DATA SHEETS

R2 (13-November 2002)