Data Sheet

Central™
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Manufacturers of World Class Discrete Semiconductors

# CBR4M-L010M SERIES

## GLASS PASSIVATED JUNCTION SILICON BRIDGE RECTIFIER 4.0 AMP, 100 THRU 1000 VOLTS

**CASE DMM**

## DESCRIPTION

The CENTRAL SEMICONDUCTOR CBR4M-L010M series types are silicon single phase full wave bridge rectifiers designed for general purpose, high current applications. **THIS DEVICE IS MANUFACTURED WITH A GLASS PASSIVATED CHIP FOR OPTIMUM RELIABILITY.**

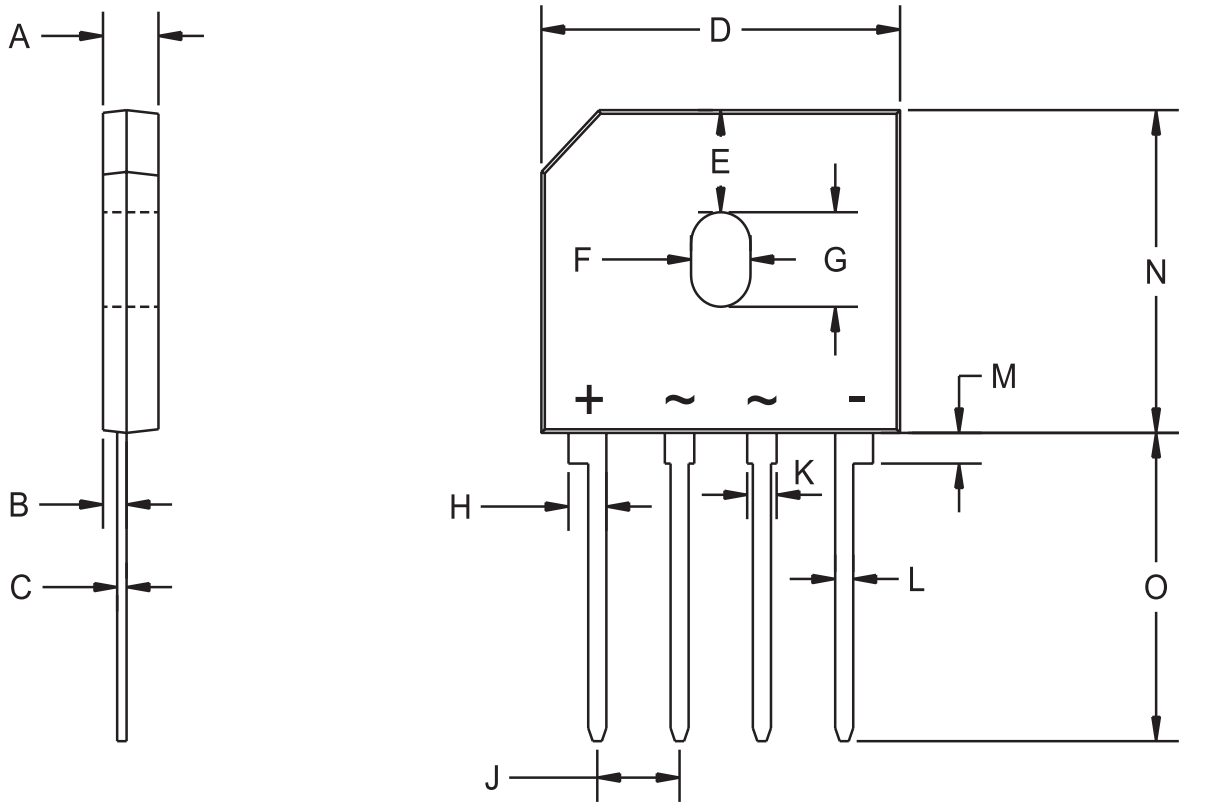
## MAXIMUM RATINGS ($T_A$=25°C unless otherwise noted)

| | SYMBOL | CBR4M -L010M | CBR4M -L020M | CBR4M -L040M | CBR4M -L060M | CBR4M -L080M | CBR4M -L100M | 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 ($T_C$=100°C) | $I_O$ | | | 4.0 | | | | A |
| Peak Forward Surge Current | $I_{FSM}$ | | | 150 | | | | A |
| Operating and Storage Junction Temperature | $T_J$,$T_{stg}$ | | | -65 to +150 | | | | °C |
| Thermal Resistance | $\Theta_{JC}$ | | | 4.0 | | | | °C/W |

## ELECTRICAL CHARACTERISTICS PER DIODE ($T_A$=25°C unless otherwise noted)

| SYMBOL | TEST CONDITIONS | MIN | TYP | MAX | UNITS |
|---|---|---|---|---|---|
| $I_R$ | $V_R$=Rated $V_{RRM}$ | | | 5.0 | μA |
| $I_R$ | $V_R$=Rated $V_{RRM}$, $T_C$=100°C | | | 500 | μA |
| $V_F$ | $I_F$=4.0A | | | 1.0 | V |
| $C_J$ | $V_R$=4.0V, f=1.0MHz | | 270 | | pF |

# CASE DMM - MECHANICAL OUTLINE




R1

| DIMENSIONS | | | | |
|---|---|---|---|---|
| | INCHES | | MILLIMETERS | |
| SYMBOL | MIN | MAX | MIN | MAX |
| A | 0.130 | 0.140 | 3.30 | 3.56 |
| B | 0.030 | 0.040 | 0.76 | 1.02 |
| C | 0.018 | 0.022 | 0.46 | 0.56 |
| D | 0.860 | 0.880 | 21.84 | 22.35 |
| E | 0.230 | | 5.85 | |
| F | 0.150 | | 3.81 | |
| G | 0.215 | | 5.46 | |
| H | 0.085 | 0.100 | 2.16 | 2.54 |
| J | 0.190 | 0.210 | 4.83 | 5.33 |
| K | 0.065 | 0.080 | 1.65 | 2.03 |
| L | 0.040 | 0.050 | 1.02 | 1.27 |
| M | 0.060 | 0.080 | 1.52 | 2.03 |
| N | 0.720 | 0.740 | 18.30 | 18.80 |
| O | 0.690 | 0.710 | 17.53 | 18.03 |

Case DMM (REV: R1)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