

CentralTM Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

CBR1-L010M SERIES
CBR2-L010M SERIES

SILICON BRIDGE RECTIFIER

CASE B-M

DESCRIPTION

The CENTRAL SEMICONDUCTOR CBR1-L010M, CBR2-L010M series types are silicon single phase full wave bridge rectifiers designed for general purpose applications.

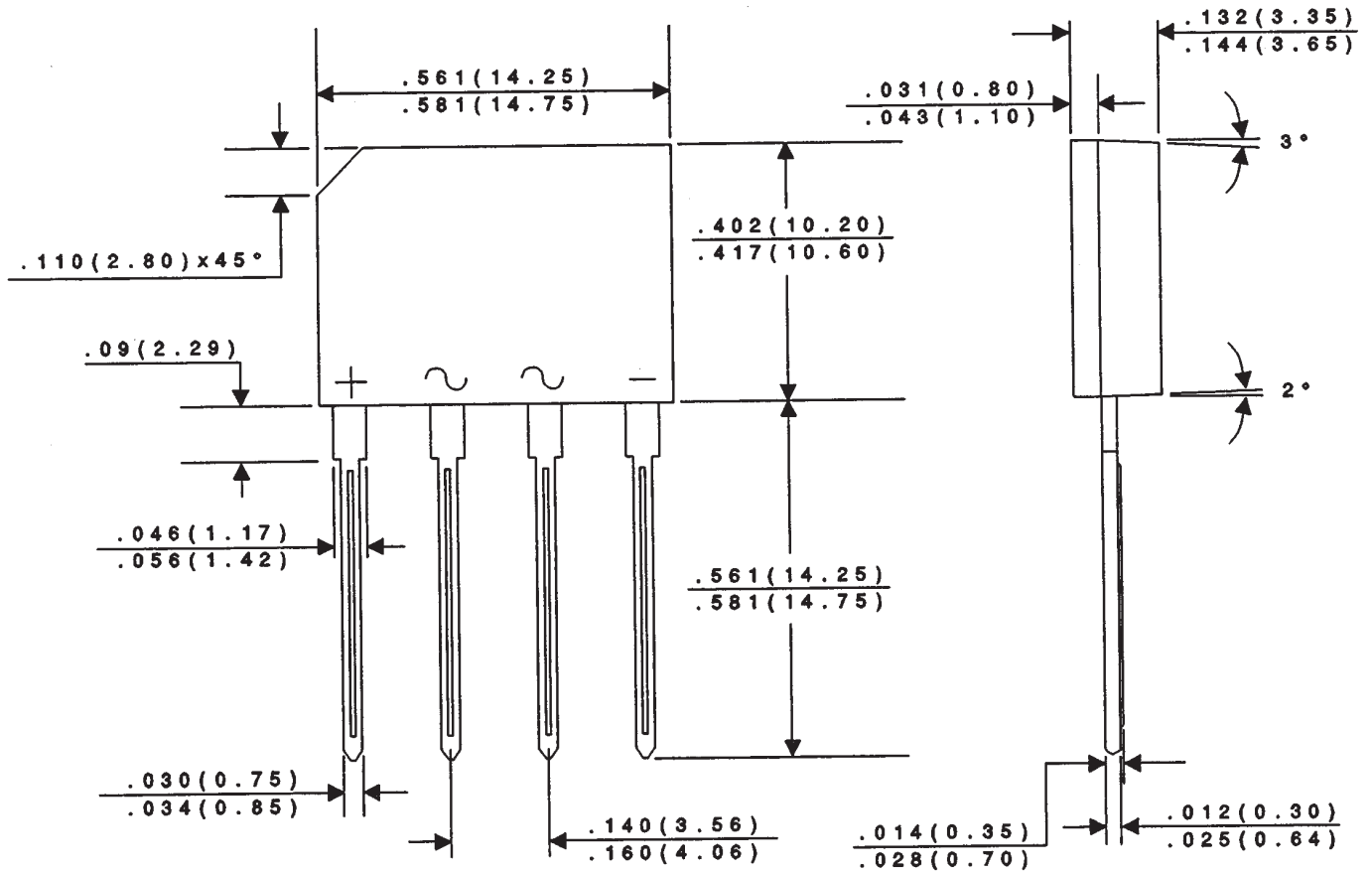
MAXIMUM RATINGS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

| | <u>SYMBOL</u> | <u>CBR1-</u> | <u>CBR1-</u> | <u>CBR1-</u> | <u>CBR1-</u> | <u>CBR1-</u> | <u>CBR1-</u> | <u>UNITS</u> |
|---|----------------|--------------|--------------|--------------|--------------|--------------|--------------|------------------|
| | | <u>L010M</u> | <u>L020M</u> | <u>L040M</u> | <u>L060M</u> | <u>L080M</u> | <u>L100M</u> | |
| | | <u>CBR2-</u> | <u>CBR2-</u> | <u>CBR2-</u> | <u>CBR2-</u> | <u>CBR2-</u> | <u>CBR2-</u> | |
| | | <u>L010M</u> | <u>L020M</u> | <u>L040M</u> | <u>L060M</u> | <u>L080M</u> | <u>L100M</u> | |
| 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 ($T_A = 50^\circ\text{C}$) (CBR1-L010M Series) | I_O | | | | 1.5 | | | A |
| Average Forward Current ($T_A = 55^\circ\text{C}$) (CBR2-L010M Series) | I_O | | | | 2.0 | | | A |
| Peak Forward Surge Current (CBR1-L010M Series) | I_{FSM} | | | | 50 | | | A |
| Peak Forward Surge Current (CBR2-L010M Series) | I_{FSM} | | | | 60 | | | A |
| Operating and Storage Junction Temperature | T_J, T_{stg} | | | -65 to +150 | | | | $^\circ\text{C}$ |

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

| <u>SYMBOL</u> | <u>TEST CONDITIONS</u> | <u>MIN</u> | <u>MAX</u> | <u>UNITS</u> |
|---------------|--|------------|------------|---------------|
| V_F | $I_F = 1.0\text{A}$ (CBR1-L010M Series) | | 1.0 | V |
| V_F | $I_F = 2.0\text{A}$ (CBR2-L010M Series) | | 1.1 | V |
| I_R | $V_R = \text{Rated } V_{RRM}$ | | 10 | μA |
| I_R | $V_R = \text{Rated } V_{RRM}, T_A = 125^\circ\text{C}$ | | 500 | μA |

CASE B-M - MECHANICAL OUTLINE



All Dimensions in Inches (mm).