

CentralTM Semiconductor Corp.

145 Adams Avenue, Hauppauge, NY 11788 USA
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Manufacturers of World Class Discrete Semiconductors

CBR6M-L010M SERIES

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

CASE DMM

DESCRIPTION

The CENTRAL SEMICONDUCTOR CBR6M-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.**

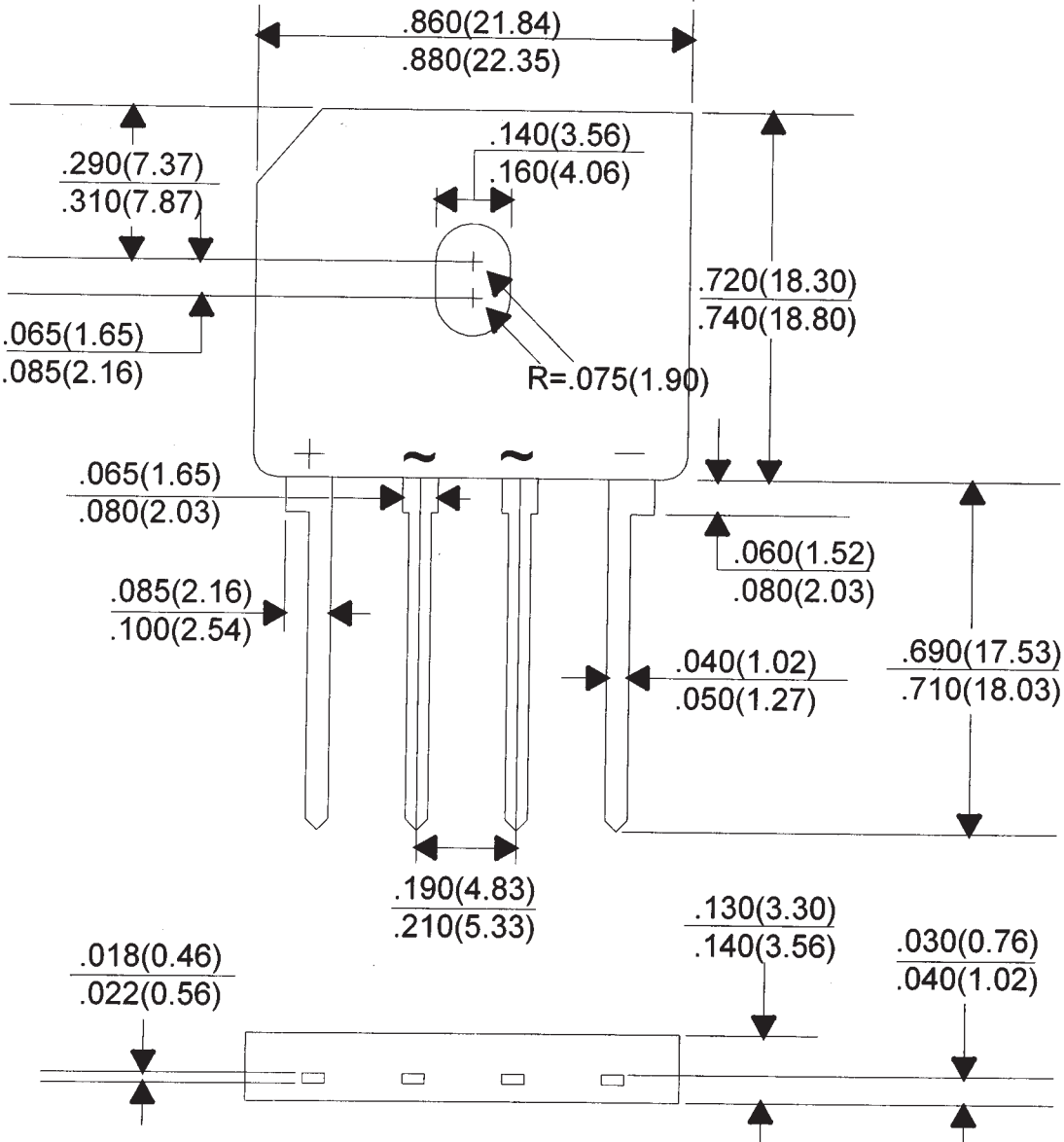
MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise noted)

	<u>SYMBOL</u>	CBR6M <u>-L010M</u>	CBR6M <u>-L020M</u>	CBR6M <u>-L040M</u>	CBR6M <u>-L060M</u>	CBR6M <u>-L080M</u>	CBR6M <u>-L100M</u>	<u>UNITS</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 ($T_C=100^\circ\text{C}$)	I_O				6.0			A
Peak Forward Surge Current	I_{FSM}				175			A
Operating and Storage Junction Temperature	T_J, T_{stg}				-65 to +150			$^\circ\text{C}$
Thermal Resistance	θ_{JC}				3.1			$^\circ\text{C/W}$

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

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>MIN</u>	<u>TYP</u>	<u>MAX</u>	<u>UNITS</u>
I_R	$V_R=\text{Rated } V_{RRM}$			5.0	μA
I_R	$V_R=\text{Rated } V_{RRM}, T_C=100^\circ\text{C}$			500	μA
V_F	$I_F=6.0\text{A}$			1.0	V
C_J	$V_R=4.0\text{V}, f=1.0\text{MHz}$		260		pF

CASE DMM - MECHANICAL OUTLINE



All Dimensions in Inches (mm).

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd 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

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix " TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

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Worldwide Distributors:
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For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centrasemi.com/terms

Product End of Life Notification

PDN ID:	PDN01009
Notification Date:	11/02/15
Last Buy Date:	5/02/16
Last Shipment Date	11/02/16

Summary: All bridge rectifiers manufactured in the CASE DMM package are discontinued and now classified as End of Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by various manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's Product Management Process. Any replacement product will be noted below. The effective date for placing the last purchase order will be six(6) months from the date of this notice and twelve(12) months from the notice date for final shipments; this may be extended if inventory is available.

Central Part Number	Replacement
CBR4M-L010M	N/A
CBR4M-L020M	N/A
CBR4M-L040M	N/A
CBR4M-L060M	N/A
CBR4M-L080M	N/A
CBR4M-L100M	N/A
CBR6M-L010M	N/A
CBR6M-L020M	N/A
CBR6M-L040M	N/A
CBR6M-L060M	N/A
CBR6M-L080M	N/A
CBR6M-L100M	N/A
CBR8M-L010M	N/A
CBR8M-L020M	N/A
CBR8M-L040M	N/A
CBR8M-L060M	N/A
CBR8M-L080M	N/A
CBR8M-L100M	N/A

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. Please email your requests to engineering@centrasemi.com.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.