

CentralTM Semiconductor Corp.

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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.**

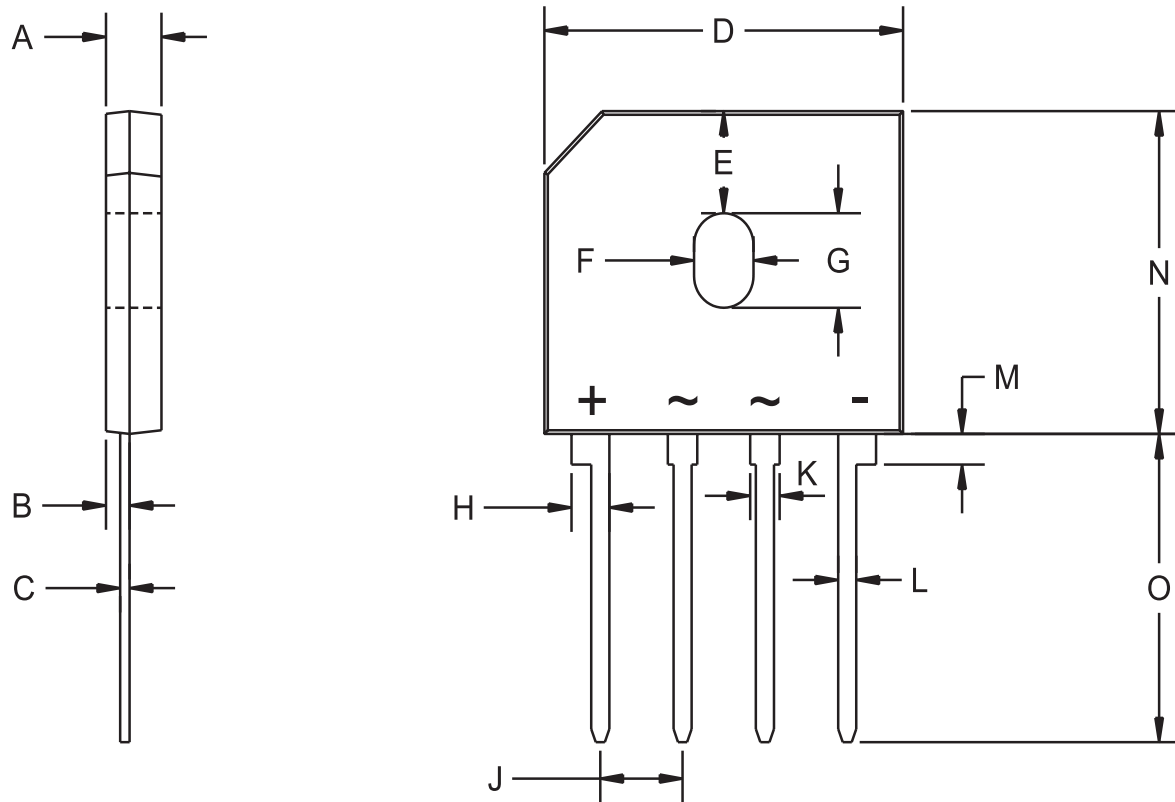
MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise noted)

	SYMBOL	CBR4M	CBR4M	CBR4M	CBR4M	CBR4M	CBR4M	UNITS
		-L010M	-L020M	-L040M	-L060M	-L080M	-L100M	
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				4.0			A
Peak Forward Surge Current	I_{FSM}				150			A
Operating and Storage								
Junction Temperature	T_J, T_{stg}				-65 to +150			$^\circ\text{C}$
Thermal Resistance	θ_{JC}				4.0			$^\circ\text{C/W}$

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	$I_F=4.0\text{A}$			1.0	V
C_J	$V_R=4.0\text{V}, f=1.0\text{MHz}$		270		pF

CASE DMM - MECHANICAL OUTLINE



R1

DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	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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R1 (18- April 2002)