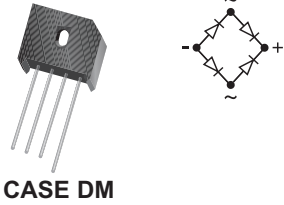


**CBR8M-L010 SERIES****SILICON BRIDGE RECTIFIERS  
8.0 AMP, 100 THRU 1000 VOLT**[www.centrasemi.com](http://www.centrasemi.com)**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CBR8M-L010 series types are silicon, single phase, full wave bridge rectifiers designed for general purpose, high current applications.

**MARKING: FULL PART NUMBER****MAXIMUM RATINGS:** ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)

	SYMBOL	CBR8M						UNITS
		-L010	-L020	-L040	-L060	-L080	-L100	
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 ( $T_C=100^{\circ}\text{C}$ )	$I_O$				8.0			A
Peak Forward Surge Current	$I_{FSM}$				200			A
Operating and Storage								
Junction Temperature	$T_J, T_{stg}$			-65 to +150				$^{\circ}\text{C}$
Thermal Resistance	$\Theta_{JC}$			3.0				$^{\circ}\text{C/W}$

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

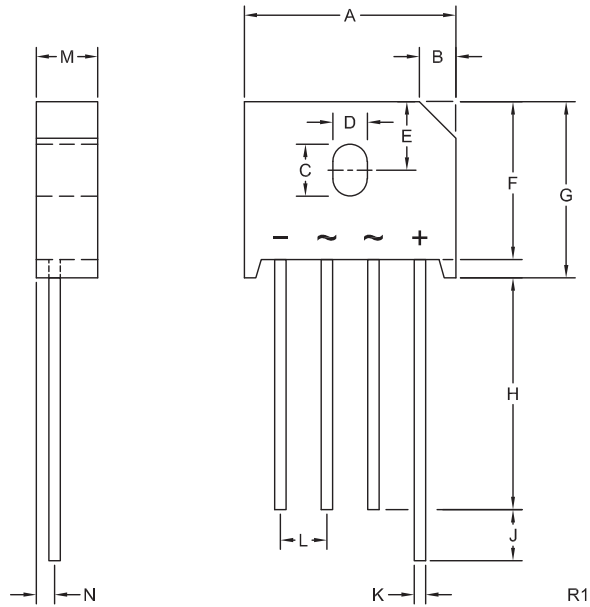
SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
$I_R$	$V_R=\text{Rated } V_{RRM}$		10	$\mu\text{A}$
$V_F$	$I_F=8.0\text{A}$		1.1	V

**CBR8M-L010 SERIES**

**SILICON BRIDGE RECTIFIERS**  
**8.0 AMP, 100 THRU 1000 VOLT**



**CASE DM - MECHANICAL OUTLINE**



**MARKING:**  
**FULL PART NUMBER**

DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.894	0.937	22.7	23.8
B	0.146	0.185	3.70	4.70
C	0.213	0.236	5.40	6.00
D	0.138	0.161	3.50	4.10
E	0.295		7.50	
F	0.657	0.701	16.7	17.8
G	0.740	0.780	18.8	19.8
H	1.000	-	25.4	-
J	0.177	0.260	4.50	6.60
K (DIA)	0.047	0.052	1.20	1.32
L	0.181	0.220	4.60	5.60
M	0.165	0.279	4.20	7.10
N	0.071	0.087	1.80	2.20

CASE DM (REV: R1)

R3 (11-October 2013)

---

## **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 (2<sup>nd</sup> 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

---

## **CONTACT US**

### **Corporate Headquarters & Customer Support Team**

Central Semiconductor Corp.  
145 Adams Avenue  
Hauppauge, NY 11788 USA  
Main Tel: (631) 435-1110  
Main Fax: (631) 435-1824  
Support Team Fax: (631) 435-3388  
[www.centrasemi.com](http://www.centrasemi.com)

**Worldwide Field Representatives:**  
[www.centrasemi.com/wwreps](http://www.centrasemi.com/wwreps)

**Worldwide Distributors:**  
[www.centrasemi.com/wwdistributors](http://www.centrasemi.com/wwdistributors)

---

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](http://www.centrasemi.com/terms)