

**CBR8M-L010 SERIES****SILICON BRIDGE RECTIFIERS  
8.0 AMP, 100 THRU 1000 VOLT**[www.centralemi.com](http://www.centralemi.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			$^\circ\text{C/W}$

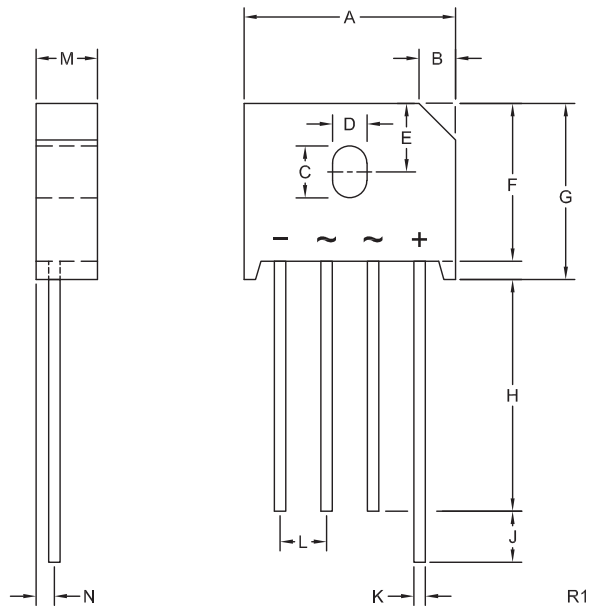
**ELECTRICAL CHARACTERISTICS PER DIODE:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

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

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**CASE DM - MECHANICAL OUTLINE**



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

SYMBOL	DIMENSIONS			
	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)