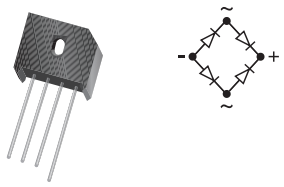
CBR8M-L010 SERIES

SILICON BRIDGE RECTIFIERS
8.0 AMP, 100 THRU 1000 VOLT



CASE DM

www.centralsemi.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°C unless otherwise noted)

		CBR8M						
	SYMBOL	-L010	-L020	-L040	-L060	-L080	-L100	UNITS
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°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				°C
Thermal Resistance	Θ_{JC}			3.0				°C/W

ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C unless otherwise noted)

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

R3 (11-October 2013)

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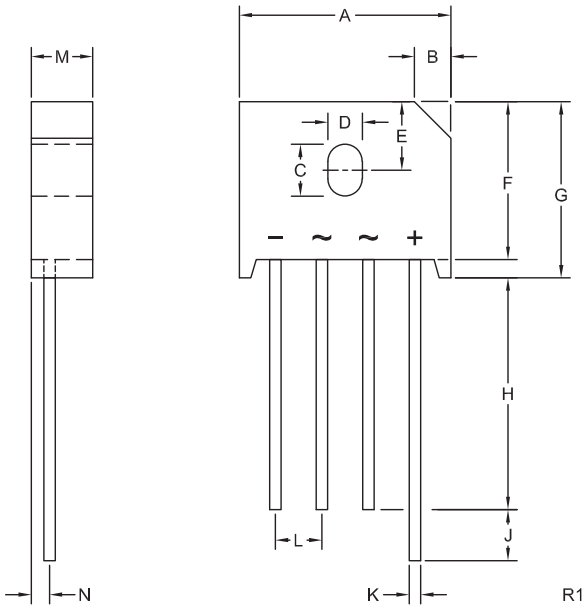
CASE DM - MECHANICAL OUTLINE



MARKING:
FULL PART NUMBER

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	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)

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

CONTACT US

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