

CBR10-J010 SERIES

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



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CBR10-J010 series devices are silicon, single phase, full wave bridge rectifiers designed for general purpose, high current applications.

MARKING: FULL PART NUMBER



CASE CM

MAXIMUM RATINGS: ($T_A=50^\circ\text{C}$ unless otherwise noted)

	SYMBOL	CBR10							UNITS
		-J010	-J020	-J040	-J060	-J080	-J090	-J100	
Peak Repetitive Reverse Voltage	V_{RRM}	100	200	400	600	800	900	1000	V
DC Blocking Voltage	V_R	100	200	400	600	800	900	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	70	140	280	420	560	630	700	V
Average Forward Current ($T_C=80^\circ\text{C}$)	I_O				10				A
Average Forward Current ($T_C=30^\circ\text{C}$)	I_O				5.0				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}				3.0				$^\circ\text{C/W}$

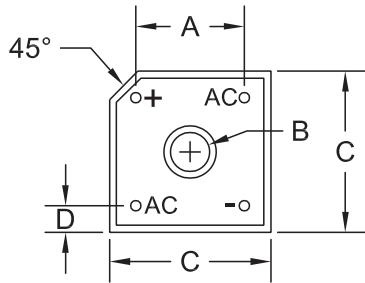
ELECTRICAL CHARACTERISTICS PER DIODE: ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
I_R	$V_R=\text{Rated } V_{RRM}$		10	μA
V_F	$I_F=5.0\text{A}$		1.2	V

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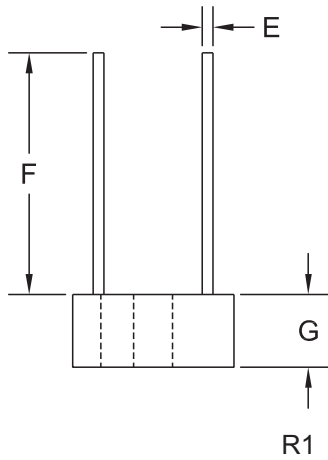


CASE CM - MECHANICAL OUTLINE



DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.405	0.445	10.29	11.30
B	0.142	0.158	3.60	4.01
C	0.580	0.620	14.73	15.75
D	0.067	0.107	1.70	2.72
E	0.040		1.02	
F	0.748	-	19.00	-
G	0.230	0.272	5.84	6.90

CASE CM (REV: R1)



MARKING:
FULL PART NUMBER

R3 (12-March 2018)

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

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

Worldwide Field Representatives:
www.centrasemi.com/wwreps

Worldwide Distributors:
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

Product End of Life Notification

PDN ID:	PDN01002
Notification Date:	9/01/15
Last Buy Date:	3/01/16
Last Shipment Date	9/01/16

Summary: Case CM Bridge Rectifiers

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.

<u>Central Part Number</u>	<u>Replacement</u>
CBR10-J010	CBR10-J100
CBR10-J020	CBR10-J100
CBR10-J040	CBR10-J100
CBR10-J060	CBR10-J100
CBR10-J080	CBR10-J100
CBR10A-J010	CBR10-J100
CBR10A-J020	CBR10-J100
CBR10A-J040	CBR10-J100
CBR10A-J060	CBR10-J100
CBR10A-J080	CBR10-J100
CBR10F-J010	CBR10-J100
CBR10F-J020	CBR10-J100
CBR10F-J040	CBR10-J100
CBR10F-J060	CBR10-J100
CBR10F-J080	CBR10-J100
CBR10F-J100	CBR10-J100
CBR6-010	CBR10-J100
CBR6-020	CBR10-J100
CBR6-040	CBR10-J100
CBR6-060	CBR10-J100
CBR6-080	CBR10-J100
CBR6-100	CBR10-J100
CBR6A-020	CBR10-J100
CBR6A-040	CBR10-J100
CBR6A-060	CBR10-J100
CBR6A-080	CBR10-J100
CBR6F-010	CBR10-J100
CBR6F-020	CBR10-J100
CBR6F-040	CBR10-J100
CBR6F-060	CBR10-J100
CBR6F-080	CBR10-J100
CBR6F-100	CBR10-J100
CEN931	N/A

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we
 *** CONTINUED ***

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.



<http://www.centrasemi.com>

Product End of Life Notification

PDN ID:	PDN01002
Notification Date:	9/01/15
Last Buy Date:	3/01/16
Last Shipment Date	9/01/16

*** CONTINUED FROM PRIOR PAGE ***

Central Part Number **Replacement**

*** CONTINUED FROM PRIOR PAGE ***

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<http://www.centrasemi.com>

Product End of Life Notification

PDN ID:	PDN01071 Rev:001
Notification Date:	5/01/18
Last Buy Date:	N/A
Last Shipment Date	N/A

Please be advised that Central Semiconductor must immediately discontinue the product(s) listed in the attached PDN notice. We are unable to accept any further orders for these products **unless** we have available inventory on hand.

You may have purchased one or more of the products listed. Please do not hesitate to contact your local Central Semiconductor sales representative with any questions or needs you may have. Central regrets any inconvenience this may cause.

Sincerely,

Central Semiconductor Corp.

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.



<http://www.centrasemi.com>

Product End of Life Notification

PDN ID:	PDN01071 Rev:001
Notification Date:	5/01/18
Last Buy Date:	N/A
Last Shipment Date	N/A

Summary: The CBR10-J100 Bridge Rectifier is discontinued and is now classified as End of Life (EOL). Rev:001 of PDN01071, dated February 8, 2018, is being issued to add the Replacement part number CBR10-J090. Central apologizes for any inconvenience.

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by other 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 ongoing Product Management Process. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

<u>Central Part Number</u>	<u>Replacement</u>
CBR10-J100	CBR10-J090

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.



<http://www.centrasemi.com>

Product End of Life Notification

PDN ID:	PDN01078
Notification Date:	4/26/18
Last Buy Date:	10/26/18
Last Shipment Date	4/26/19

Summary: The CBR10-J090 Bridge Rectifier is discontinued and is 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.

<u>Central Part Number</u>	<u>Replacement</u>
CBR10-J090	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.