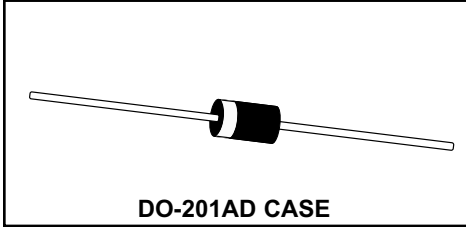


**CR5-010 SERIES  
GLASS PASSIVATED JUNCTION  
GENERAL PURPOSE  
SILICON RECTIFIER  
5.0 AMP, 100 THRU 1200 VOLTS**



# Central<sup>TM</sup>

**Semiconductor Corp.**

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CR5-010 Series types are 5.0 Amp, Glass Passivated Junction, Silicon Rectifiers which are high quality, well constructed, highly reliable components designed for use in all types of military, commercial, industrial, entertainment, computer, and automotive applications.

**THIS DEVICE IS MANUFACTURED WITH A GLASS PASSIVATED CHIP FOR OPTIMUM RELIABILITY.**

**MARKING CODES: SEE MARKING CODES ON FOLLOWING PAGE**

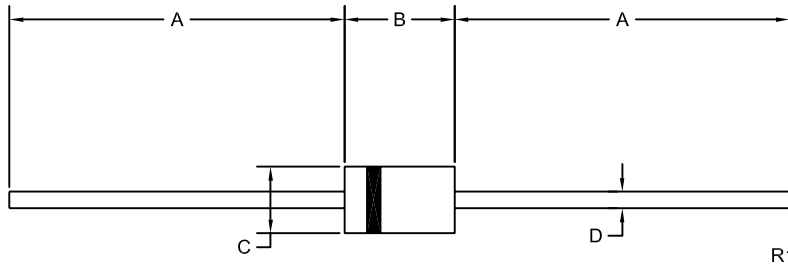
**MAXIMUM RATINGS:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

	SYMBOL	CR5 <u>-010</u>	CR5 <u>-020</u>	CR5 <u>-040</u>	CR5 <u>-060</u>	CR5 <u>-080</u>	CR5 <u>-100</u>	CR5 <u>-120</u>	UNITS
Peak Repetitive Reverse Voltage	$V_{RRM}$	100	200	400	600	800	1000	1200	V
DC Blocking Voltage	$V_R$	100	200	400	600	800	1000	1200	V
RMS Reverse Voltage	$V_{R(RMS)}$	70	140	280	420	560	700	840	V
Average Forward Current ( $T_A=75^\circ\text{C}$ )	$I_O$				5.0				A
Peak Forward Surge Current	$I_{FSM}$				200				A
Operating and Storage Junction Temperature	$T_J, T_{stg}$				-65 to +150				$^\circ\text{C}$

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
$I_R$	$V_R = \text{Rated } V_{RRM}$			5.0	$\mu\text{A}$
$I_R$	$V_R = \text{Rated } V_{RRM}, T_A = 100^\circ\text{C}$			100	$\mu\text{A}$
$V_F$	$I_F = 5.0\text{A}$			1.2	V
$C_J$	$V_R = 4.0\text{V}, f = 1.0\text{MHz}$ (CR5-010 THRU CR5-040)		50		pF
$C_J$	$V_R = 4.0\text{V}, f = 1.0\text{MHz}$ (CR5-060 THRU CR5-120)		25		pF

JEDEC DO-201AD - MECHANICAL OUTLINE



DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	1.000	-	25.40	-
B	0.283	0.375	7.20	9.53
C	0.189	0.210	4.80	5.33
D	0.047	0.052	1.20	1.32

DO-201AD (REV: R1)

Device	Marking Code
CR5-010	CENTRAL CR5-010
CR5-020	CENTRAL CR5-020
CR5-040	CENTRAL CR5-040
CR5-060	CENTRAL CR5-060
CR5-080	CENTRAL CR5-080
CR5-100	CENTRAL CR5-100
CR5-120	CENTRAL CR5-120

R2 (10-March 2006)

## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### 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

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### 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

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### 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).

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### 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)

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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)



<http://www.centrasemi.com>

## Product End of Life Notification

PDN ID:	PDN01075
Notification Date:	3/06/18
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.

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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.

# Product End of Life Notification

<b>PDN ID:</b>	PDN01075
<b>Notification Date:</b>	3/06/18
<b>Last Buy Date:</b>	N/A
<b>Last Shipment Date</b>	N/A

Summary: The CR5-010 silicon rectifier series is being discontinued; these devices are 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>
CR5-010 BK	N/A
CR5-010 TR	N/A
CR5-020 BK	N/A
CR5-040 BK	N/A
CR5-060 BK	N/A
CR5-060 TR	N/A
CR5-080 TR	N/A
CR5-100 BK	N/A
CR5-120 BK	N/A
CR5-120 TR	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@centralsemi.com](mailto:engineering@centralsemi.com).

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