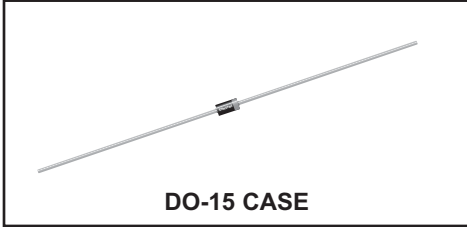


**CR2-010 THRU CR2-100**  
**SILICON RECTIFIERS**  
**2.0 AMP, 100 THRU 1000 VOLT**



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

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CR2-010 series 2.0 Amp silicon rectifier is a highly reliable component designed for use in all types of military, commercial, industrial, entertainment, computer, and automotive applications. Because of its superior electrical characteristics, this rectifier family is used as a universal replacement for many other rectifiers.

**MARKING: FULL PART NUMBER**

**FEATURES:**

- 2.0 Amp average forward current @ 50°C
- 50 Amp surge current

**MAXIMUM RATINGS:** (T<sub>A</sub>=25°C unless otherwise noted)

	SYMBOL	CR2						UNITS
		<u>-010</u>	<u>-020</u>	<u>-040</u>	<u>-060</u>	<u>-080</u>	<u>-100</u>	
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	100	200	400	600	800	1000	V
DC Blocking Voltage	V <sub>R</sub>	100	200	400	600	800	1000	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	70	140	280	420	560	700	V
Average Forward Current (T <sub>A</sub> =50°C)	I <sub>O</sub>				2.0			A
Peak Forward Surge Current (tp=8.3ms)	I <sub>FSM</sub>				70			A
Operating and Storage Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>				-65 to +150			°C

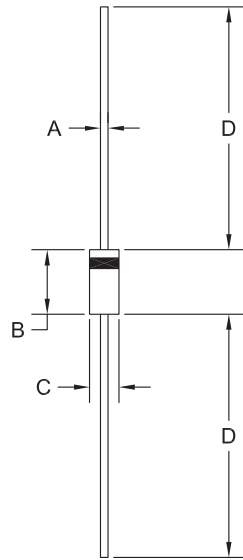
**ELECTRICAL CHARACTERISTICS:** (T<sub>A</sub>=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I <sub>R</sub>	V <sub>R</sub> =Rated V <sub>RRM</sub>		5.0	μA
I <sub>R</sub>	V <sub>R</sub> =Rated V <sub>RRM</sub> , T <sub>A</sub> =100°C		300	μA
V <sub>F</sub>	I <sub>F</sub> =2.0A		1.1	V
C <sub>J</sub>	V <sub>R</sub> =4.0V, f=1.0MHz	40		pF

**CR2-010 THRU CR2-100**  
**SILICON RECTIFIERS**  
**2.0 AMP, 100 THRU 1000 VOLT**



**DO-15 CASE - MECHANICAL OUTLINE**



R1

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.028	0.034	0.71	0.86
B	0.230	0.300	5.84	7.62
C	0.104	0.140	2.64	3.56
D	1.000	-	25.40	-

DO-15 (REV: R1)

**MARKING: FULL PART NUMBER**

R2 (17-January 2016)

## 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

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**Worldwide Distributors:**  
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