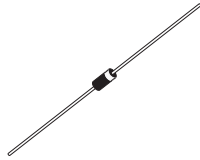


CR250-2 SERIES
HIGH VOLTAGE
SILICON RECTIFIER
2000 THRU 4000 VOLTS
200mA



CentralTM

Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CR250-2 series types are 200mA axial lead high voltage silicon rectifiers designed for general purpose high voltage applications.

MARKING: FULL PART NUMBER

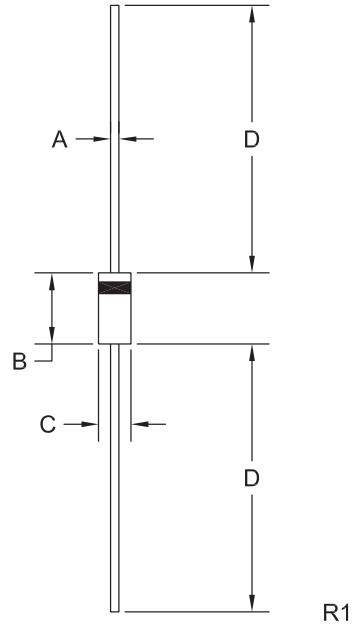
MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

| | SYMBOL | CR250-2 | CR250-3 | CR250-4 | UNITS |
|--|-------------------|---------|-------------|---------|------------------|
| DC Blocking Voltage | V_R | 2000 | 3000 | 4000 | V |
| Peak Repetitive Reverse Voltage | V_{RRM} | 2000 | 3000 | 4000 | V |
| RMS Reverse Voltage | $V_R(\text{RMS})$ | 1400 | 2100 | 2800 | V |
| Average Forward Current ($T_A=50^\circ\text{C}$) | I_O | | 200 | | mA |
| Peak Forward Surge Current ($t=8.3\text{ms}$) | I_{FSM} | | 30 | | 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 | TYP | MAX | UNITS |
|--------|--|-----|-----|---------------|
| I_R | $V_R=\text{Rated } V_{RRM}$ | | 5.0 | μA |
| I_R | $V_R=\text{Rated } V_{RRM}, T_A=100^\circ\text{C}$ | | 50 | μA |
| V_F | $I_R=200\text{mA (CR250-2)}$ | | 3.0 | V |
| V_F | $I_R=200\text{mA (CR250-3)}$ | | 4.0 | V |
| V_F | $I_R=200\text{mA (CR250-4)}$ | | 5.0 | V |
| C_J | $V_R=4.0\text{V}, f=1.0\text{MHz}$ | 30 | | pF |

DO-15 CASE - MECHANICAL OUTLINE



| DIMENSIONS | | | | |
|------------|--------|-------|-------------|------|
| SYMBOL | 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

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

Corporate Headquarters & Customer Support Team

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www.centalsemi.com

Worldwide Field Representatives:
www.centalsemi.com/wwreps

Worldwide Distributors:
www.centalsemi.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.centalsemi.com/terms

Summary: The purpose of this End of Life Notification is to identify the standard packaged devices that Central previously discontinued without notification. This list excludes custom and bare die devices. The discontinuance of these devices predates Central's current EOL notification process. The notification process now utilized by Central is industry standard and future product discontinuation notifications will be issued accordingly. We apologize for any inconvenience caused.

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.

| Central Part Number | Replacement |
|----------------------------|--------------------|
| CBRSDSH5-40 | CBRSDSH2-40 |
| CBRSDSH5-60 | CBRSDSH2-60 |
| CBR10-010 | CBR10-010P |
| CBR10-020 | CBR10-020P |
| CBR10-040 | CBR10-040P |
| CBR10-080 | CBR10-080P |
| CBR25-010 | CBR25-010P |
| CBR25-020 | CBR25-020P |
| CBR25-040 | CBR25-040P |
| CBR25-060 | CBR25-060P |
| CBR25-080 | CBR25-080P |
| CBR25-100 | CBR25-100P |
| CBR35-010 | CBR35-010P |
| CBR35-020 | CBR35-020P |
| CBR35-040 | CBR35-040P |
| CBR35-060 | CBR35-060P |
| CBR35-100 | CBR35-100P |
| CCLHM080 | CMJH080 |
| CCLHM100 | CMJH100 |
| CCLHM120 | CMJH120 |
| CCLHM150 | CMJH150 |
| CCLM0035 | N/A |
| CCLM0130 | CMJ0130 |
| CCLM0300 | CMJ0300 |
| CCLM0500 | CMJ0500 |
| CCLM0750 | CMJ0750 |
| CCLM1000 | CMJ1000 |
| CCLM1500 | CMJ1500 |
| CCLM2000 | CMJ2000 |
| CCLM2700 | CMJ2700 |
| CCLM3500 | CMJ3500 |
| CCLM4500 | CMJ4500 |
| CCLM5750 | CMJ5750 |
| CED2838E | N/A |
| CLLR1-01 | CMR1-01M |

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| Central Part Number | Replacement |
|----------------------------|--------------------|
| CLLR1-02 | CMR1-02M |
| CLLR1-04 | CMR1-04M |
| CLLR1-06 | CMR1-06M |
| CLLR1-10 | CMR1-10M |
| CLLR1F-02 | CMR1F-02M |
| CLLR1F-06 | CMR1F-06M |
| CLLR1F-10 | CMR1F-10M |
| CLLR1U-01 | CMR1U-01M |
| CLLR1U-02 | CMR1U-02M |
| CLLR1U-04 | CMR1U-04M |
| CLLSH1-20 | CMSH1-20M |
| CLLSH1-40 | CMSH1-40M |
| CLLSH1-60 | CMSH1-60M |
| CLL4104 | CMHZ4104 |
| CLL4116 | CMHZ4116 |
| CLL4122 | CMHZ4122 |
| CLL457A | CMHD457A |
| CLL459A | CMHD459A |
| CLL4614 | CMHZ4614 |
| CLL4615 | CMHZ4615 |
| CLL4617 | CMHZ4617 |
| CLL4619 | CMHZ4619 |
| CLL4620 | CMHZ4620 |
| CLL4625 | CMHZ4625 |
| CLL4626 | CMHZ4626 |
| CLL4627 | CMHZ4627 |
| CLL4678 | CMHZ4678 |
| CLL4679 | CMHZ4679 |
| CLL4680 | CMHZ4680 |
| CLL4681 | CMHZ4681 |
| CLL4682 | CMHZ4682 |
| CLL4683 | CMHZ4683 |
| CLL4684 | CMHZ4684 |
| CLL4685 | CMHZ4685 |
| CLL4686 | CMHZ4686 |
| CLL4687 | CMHZ4687 |
| CLL4688 | CMHZ4688 |
| CLL4689 | CMHZ4689 |
| CLL4690 | CMHZ4690 |
| CLL4690C | CMHZ4690C |
| CLL4691 | CMHZ4691 |
| CLL4692 | CMHZ4692 |
| CLL4693 | CMHZ4693 |
| CLL4694 | CMHZ4694 |
| CLL4694C | CMHZ4694C |

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| Central Part Number | Replacement |
|----------------------------|--------------------|
| CLL4696 | CMHZ4696 |
| CLL4697 | CMHZ4697 |
| CLL4698 | CMHZ4698 |
| CLL4699 | CMHZ4699 |
| CLL4700 | CMHZ4700 |
| CLL4701 | CMHZ4701 |
| CLL4702 | CMHZ4702 |
| CLL4703 | CMHZ4703 |
| CLL4704 | CMHZ4704 |
| CLL4705 | CMHZ4705 |
| CLL4707 | CMHZ4707 |
| CLL4708 | CMHZ4708 |
| CLL4709 | CMHZ4709 |
| CLL4709C | CMHZ4709C |
| CLL4711 | CMHZ4711 |
| CLL4713 | CMHZ4713 |
| CLL4714 | CMHZ4714 |
| CLL4715 | CMHZ4715 |
| CLL4716 | CMHZ4716 |
| CLL4717 | CMHZ4717 |
| CLL4728 | CLL4728A |
| CLL5001 | CMPD5001 |
| CLL5221B | CMHZ5221B |
| CLL5222A | N/A |
| CLL5222B | CMHZ5222B |
| CMEDA-6I | N/A |
| CMPD300 | CMPD300 BK |
| CMPD400 | CMPD400 BK |
| CMPTA42 | CMPTA42E |
| CMPTA92 | CMPTA92E |
| CMPT3640 | CMPT4209 |
| CMWSH-4 | N/A |
| CMZ5337D | N/A |
| CM2894A | CM4209 |
| CN1671A | N/A |
| CN5281B | 1N5281B |
| CN695 | N/A |
| CR150-005 | N/A |
| CR150-005R | N/A |
| CR150-010 | N/A |
| CR150-020 | N/A |
| CR150-040 | N/A |
| CR150-040R | N/A |
| CR150-080 | N/A |
| CR150-080R | N/A |

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| Central Part Number | Replacement |
|----------------------------|--------------------|
| CR250-020 | N/A |
| CR250-080 | N/A |
| CR250-080R | N/A |
| CR250-120 | N/A |
| CR250-120R | N/A |
| CR250-2 | N/A |
| CR250-3 | N/A |
| CR250F-3 | N/A |
| CR250F-4 | N/A |
| CR3-005 | CR3-005GPP |
| CR3-010 | CR3-010GPP |
| CR3-020 | CR3-020GPP |
| CR3-040 | CR3-040GPP |
| CR3-060 | CR3-060GPP |
| CR3-080 | CR3-080GPP |
| CR3-100 | CR3-100GPP |
| CR3-120 | CR3-120GPP |
| CR3U-100 | N/A |
| CR6AF2 | CR6AF2GPP |
| CR6A4 | CR6A4GPP |
| CSMS15 | N/A |
| CSMS24 | N/A |
| CSTB162 | N/A |
| CSTB165 | N/A |
| CSTB362 | N/A |
| CSTB365 | N/A |
| CSTB462 | N/A |
| CSTB465 | N/A |
| CSTB567 | N/A |
| CSTB568 | N/A |
| CSTB569 | N/A |
| CTLDM7003T-M563D | N/A |
| CTLDM7120-M832D | CTLDM7120-M832DS |
| CTLDM7181-M832D | N/A |
| CTLDM8120-M832D | CTLDM8120-M832DS |
| CTLM1034-M832D | N/A |
| CTLM1074-M832D | N/A |
| CTLM3410-M832D | N/A |
| CTLM3474-M832D | N/A |
| CTLM7110-M832D | N/A |
| CTLM7410-M832D | N/A |
| CTLM8110-M832D | N/A |
| CTLSH1-40M322 | CTLSH1-40M322S |
| CTLSH1-40M563 | N/A |
| CTLSH1-40M832D | CTLSH1-40M832DS |

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| Central Part Number | Replacement |
|----------------------------|--------------------|
| CTLSH10-60M856 | N/A |
| CTLSH2-40M832 | N/A |
| CTLSH3-30M833 | CTLSH3-30M833S |
| CTLSH5-40M833 | CTLSH5-40M833S |
| CTLS5064-M532 | N/A |
| CTLS5064R-M532 | N/A |
| CTLT3410-M521 | N/A |
| CTLT5551-M832D | N/A |
| CTLT7410-M521 | N/A |
| CTLT853-M833 | CTLT853-M833S |
| CTLT953-M833 | CTLT953-M833S |
| CYTA44D | N/A |
| CYTA4494D | N/A |
| CYT5551D | N/A |
| CYT5551HCD | N/A |
| CYT7090LD | N/A |
| CZT900K | N/A |
| MMPQ2222A | N/A |
| MMPQ2907A | N/A |
| MMPQ3904 | N/A |
| MMPQ3906 | N/A |
| MMPQ6502 | N/A |
| MM4258 | CM4209 |
| PN2894 | PN4209 |
| PN3640 | PN4209 |
| PN4258 | PN4209 |
| PN5910 | PN4209 |
| 1N277 | N/A |
| 1N34A | N/A |
| 1N355 | N/A |
| 1N4444 | 1N4148 |
| 1N4634 | N/A |
| 1N4944 | 1N4946 |
| 1N5333B | N/A |
| 1N5334B | CZ5334B |
| 1N5335B | CZ5335B |
| 1N5336B | CZ5336B |
| 1N5337B | CZ5337B |
| 1N5338B | CZ5338B |
| 1N5339B | CZ5339B |
| 1N5339C | N/A |
| 1N5340B | CZ5340B |
| 1N5341B | CZ5341B |
| 1N5341C | N/A |
| 1N5342B | CZ5342B |

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| Central Part Number | Replacement |
|----------------------------|--------------------|
| 1N5342C | N/A |
| 1N5343B | CZ5343B |
| 1N5343C | N/A |
| 1N5344B | CZ5344B |
| 1N5345B | CZ5345B |
| 1N5346B | CZ5346B |
| 1N5347B | CZ5347B |
| 1N5348B | CZ5348B |
| 1N5349B | CZ5349B |
| 1N5350B | CZ5350B |
| 1N5350C | N/A |
| 1N5351B | CZ5351B |
| 1N5351C | N/A |
| 1N5352B | CZ5352B |
| 1N5355B | CZ5355B |
| 1N5356B | CZ5356B |
| 1N5357B | CZ5357B |
| 1N5358B | CZ5358B |
| 1N5359B | CZ5359B |
| 1N5360B | CZ5360B |
| 1N5361B | CZ5361B |
| 1N5362B | CZ5362B |
| 1N5364B | CZ5364B |
| 1N5365B | CZ5365B |
| 1N5368B | CZ5368B |
| 1N5370B | CZ5370B |
| 1N5373B | CZ5373B |
| 1N5374B | CZ5374B |
| 1N5375B | CZ5375B |
| 1N5376B | CZ5376B |
| 1N5377B | CZ5377B |
| 1N5378B | CZ5378B |
| 1N5380B | CZ5380B |
| 1N5382B | CZ5382B |
| 1N5383B | CZ5383B |
| 1N5384B | CZ5384B |
| 1N5386B | CZ5386B |
| 1N5387B | CZ5387B |
| 1N5388B | CZ5388B |
| 1N5416 | 1N5419 |
| 1N5417 | 1N5419 |
| 1N5418 | 1N5419 |
| 1N5559B | 1N4736A |
| 1N5565B | 1N4742A |
| 1N5586B | 1N4763A |

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| Central Part Number | Replacement |
|----------------------------|--------------------|
| 1N60 | N/A |
| 1N6263 | CMDD6263 |
| 1N6373 | 1.5CE6.8A |
| 1N64 | N/A |
| 1N645 | CN645 |
| 1N647 | CN647 |
| 1N649 | CN649 |
| 1N67A | N/A |
| 1N774 | N/A |
| 1N821A | CMKTC825A |
| 1N823A | CMKTC825A |
| 1N823A DO-7 | CMKTC825A |
| 1N825A | CMKTC825A |
| 1N825A DO-7 | CMKTC825A |
| 1N827A | CMKTC825A |
| 1N827A DO-7 | CMKTC825A |
| 1N829A | CMKTC825A |
| 1N829A DO-7 | CMKTC825A |
| 1N87A | N/A |
| 1N888 | N/A |
| 1N914B | 1N4448 |
| 2N2411 | CM4209 |
| 2N2412 | CM4209 |
| 2N2609 | 2N5116 |
| 2N2646 | 2N4870 |
| 2N2840 | N/A |
| 2N2894 | CM4209 |
| 2N3012 | CM4209 |
| 2N3055H | N/A |
| 2N3249 | CM4209 |
| 2N3546 | CM4209 |
| 2N3724A | 2N3725A |
| 2N3829 | CM4209 |
| 2N4208 | CM4209 |
| 2N4209 | CM4209 |
| 2N5057 | CM4209 |
| 2N5114 | 2N5116 |
| 2N5484 | 2N5485 |
| 2N5545 | N/A |
| 2N5771 | PN4209 |
| 2N5950 | 2N5951 |
| 2N869 | CM4209 |
| 2N869A | CM4209 |

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<http://www.centrasemi.com>

PDN01000

8/03/15

Varies

Varies

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Central Part Number **Replacement**

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.



<http://www.centrasemi.com>

PDN01066

8/24/17

N/A

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.



<http://www.centrasemi.com>

PDN01066

8/24/17

N/A

N/A

Summary: The CR250-4 High Voltage Silicon Rectifier is discontinued and 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> |
|----------------------------|--------------------|
| CR250-4 BK | 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.