

CLLRH SERIES
SURFACE MOUNT
SILICON GENERAL PURPOSE
RECTIFIER
0.5 AMP, 200 THRU 600 VOLTS



www.centrasemi.com



DESCRIPTION:

The CENTRAL SEMICONDUCTOR CLLRH Series 0.5 amp leadless glass silicon rectifier is a high quality, well constructed, highly reliable component designed for use in all types of commercial, industrial, entertainment, computer and automotive applications where space is critical.

FEATURES:

- High Current Density
- High Reliability
- Special Selections Available
- Robust Glass Construction
- Superior Lot to Lot Consistency

MARKING: CATHODE BAND

| MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$ unless otherwise noted) | SYMBOL | CLLRH | CLLRH | CLLRH | UNITS |
|--|----------------|--------------|--------------|--------------|------------------|
| | | -02 | -04 | -06 | |
| Peak Repetitive Reverse Voltage | V_{RRM} | 200 | 400 | 600 | V |
| DC Blocking Voltage | V_R | 200 | 400 | 600 | V |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 140 | 280 | 420 | V |
| Average Forward Current ($T_L=80^\circ\text{C}$) | I_O | | 0.5 | | A |
| Peak Forward Surge Current (Non-Repetitive, 8.3ms surge) | I_{FSM} | | 10 | | A |
| Operating and Storage Junction Temperature | T_J, T_{stg} | | -65 to +175 | | $^\circ\text{C}$ |

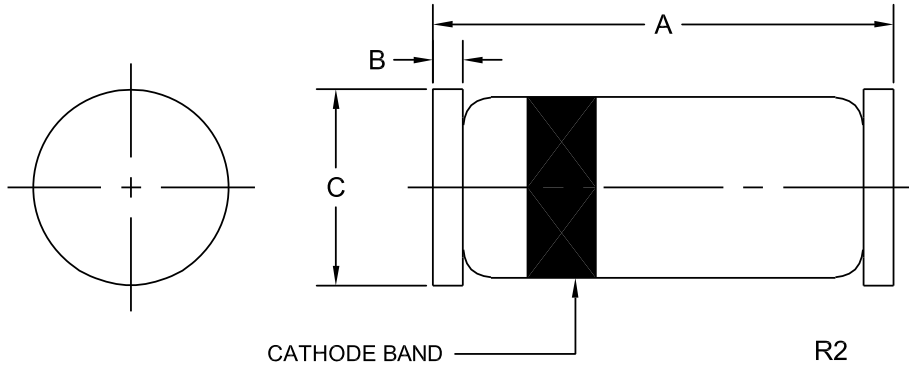
| ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$ unless otherwise noted) | | MIN | MAX | UNITS |
|---|--|------------|------------|---------------|
| SYMBOL | TEST CONDITIONS | | | |
| I_R | $V_R=\text{Rated } V_{RRM}$ | | 200 | nA |
| I_R | $V_R=\text{Rated } V_{RRM}, T_A=150^\circ\text{C}$ | | 25 | μA |
| V_F | $I_F=500\text{mA}$ | | 1.1 | V |
| C_J | $V_R=4.0\text{V}, f=1.0\text{MHz}$ | | 10 | pF |

R4 (8-January 2010)

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SOD-80 CASE - MECHANICAL OUTLINE



MARKING: CATHODE BAND

| SYMBOL | DIMENSIONS | | | |
|---------|------------|-------|-------------|------|
| | INCHES | | MILLIMETERS | |
| | MIN | MAX | MIN | MAX |
| A | 0.130 | 0.146 | 3.30 | 3.71 |
| B | 0.014 | | 0.35 | |
| C (DIA) | 0.049 | 0.067 | 1.25 | 1.70 |

SOD-80 (REV:R2)

R4 (8-January 2010)



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

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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

Product End of Life Notification

| | |
|---------------------------|----------|
| PDN ID: | PDN01030 |
| Notification Date: | 7/25/16 |
| Last Buy Date: | 1/25/17 |
| Last Shipment Date | 7/25/17 |

Summary: The CLLRH Series of general purpose rectifiers in the SOD-80 case are 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.

| Central Part Number | Replacement |
|----------------------------|--------------------|
| CLLRH-02 BK | CMMR1-02 BK |
| CLLRH-02 TR | CMMR1-02 TR |
| CLLRH-04 BK | CMMR1-04 BK |
| CLLRH-04 TR | CMMR1-04 TR |
| CLLRH-06 BK | CMMR1-06 BK |
| CLLRH-06 TR | CMMR1-06 TR |
| CLLRH-07 BK | CMMR1-06 BK |

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.