

CLLRH SERIES**SURFACE MOUNT
SILICON GENERAL PURPOSE
RECTIFIER
0.5 AMP, 200 THRU 600 VOLTS****SOD-80 CASE**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		$^\circ\text{C}$

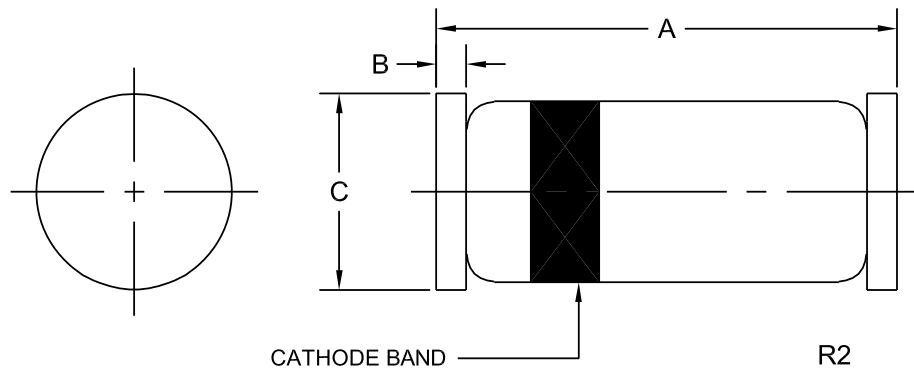
ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
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

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SOD-80 CASE - MECHANICAL OUTLINE



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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)

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

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