

## SURFACE MOUNT LOW LEAKAGE SILICON DIODE





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# DESCRIPTION:

The CENTRAL SEMICONDUCTOR CLL3595 type is an epitaxial planar silicon diode, manufactured in a hermetically sealed glass surface mount package, designed for low leakage, high conductance applications.

# MARKING: CATHODE BAND

MAXIMUM RATINGS: (T <sub>A</sub> =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	150	V
Peak Working Reverse Voltage	V <sub>RWM</sub>	125	V
Average Forward Current	۱ <sub>0</sub>	150	mA
Forward Steady-State Current	١ <sub>F</sub>	225	mA
Recurrent Peak Forward Current	i <sub>f</sub>	600	mA
Peak Forward Surge Current (1.0s pulse)	IFSM	500	mA
Peak Forward Surge Current (1.0µs pulse)	IFSM	4.0	А
Power Dissipation	PD	500	mW
Operating and Storage Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>	-65 to +200	°C
Thermal Resistance	$\Theta_{JA}$	350	°C/W

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

SYMBOL	TEST CONDITIONS		MAX	UNITE
STIVIDUL		MIN		UNITS
I <sub>R</sub>	V <sub>R</sub> =125V		1.0	nA
I <sub>R</sub>	V <sub>R</sub> =125V, T <sub>A</sub> =125°C		500	nA
I <sub>R</sub>	V <sub>R</sub> =125V, T <sub>A</sub> =150°C		3.0	μA
I <sub>R</sub>	V <sub>R</sub> =30V, T <sub>A</sub> =125°C		300	nA
<sup>BV</sup> R	I <sub>R</sub> =100μΑ	150		V
V <sub>F</sub>	I <sub>F</sub> =1.0mA	0.54	0.69	V
V <sub>F</sub>	I <sub>F</sub> =5.0mA	0.62	0.77	V
V <sub>F</sub>	I <sub>F</sub> =10mA	0.65	0.80	V
V <sub>F</sub>	I <sub>F</sub> =50mA	0.75	0.88	V
V <sub>F</sub>	I <sub>F</sub> =100mA	0.79	0.92	V
V <sub>F</sub>	I <sub>F</sub> =200mA	0.834	1.00	V
C <sub>T</sub>	V <sub>R</sub> =0, f=1.0MHz		8.0	pF
t <sub>rr</sub>	V <sub>R</sub> =3.5V, I <sub>f</sub> =10mA, R <sub>L</sub> =1.0kΩ		3.0	μs

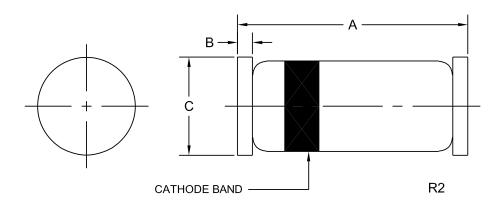
R4 (8-January 2010)



CLL3595

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# SOD-80 CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIM	ETERS
SYMBOL	MIN	MAX	MIN	MAX
Α	0.130	0.146	3.30	3.71
В	0.0	)14	0.	35
C (DIA)	0.049	0.067	1.25	1.70
		S	OD-80 (F	REV:R2)

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# 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

### DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free guick 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

· Custom product packing

Custom bar coding for shipments

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- · Custom product and package development

## REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. 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**

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.centralsemi.com

Worldwide Field Representatives: www.centralsemi.com/wwreps

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# **Product End of Life Notification**

PDN ID:	PDN01111
Notification Date:	1/18/19
Last Buy Date:	7/18/19
Last Shipment Date	1/18/20

Summary: The CLL3595 Low Leakage Diode 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 other 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 ongoing Product Management Process. Any replacement products are noted below. The effective date for placing last purchase orders will be six (6) months from the date of this notice and twelve (12) months from the notice date for final shipments, and minimum order quantities may apply. The last purchase and shipment dates may be extended if inventory is available.

Central Part Number	Replacement
CLL3595 BK	CMHD3595 BK
CLL3595 TR	CMHD3595 TR

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.

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.