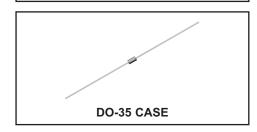
## CCLH080 CCLH120 CCLH150

## SILICON CURRENT LIMITING DIODE



Operating and Storage Junction Temperature

**MAXIMUM RATINGS**: (T<sub>L</sub>=75°C)

Peak Operating Voltage Power Dissipation



Semiconductor Corp.

www.centralsemi.com

The CENTRAL SEMICONDUCTOR CCLH080 series types are high current, silicon, field effect current regulator diodes designed for applications requiring a constant current over a wide voltage range. These devices are manufactured in the cost effective DO-35 double plug case, which provides many benefits to the user including space saving and improved thermal characteristics. Special selections of I<sub>P</sub> (regulator current) are available for critical applications.

### MARKING: FULL PART NUMBER

SYMBOL		UNITS
PoV	50	V
$P_{D}$	600	mW
T <sub>J</sub> , T <sub>stg</sub>	-65 to +200	°C

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

Regulator Current (Note 1)		Minimum Dynamic Impedance	Minimum Knee Impedance	Maximum Limiting Voltage	Temperature Coefficient (Note 2)		
I <sub>P</sub> @ V <sub>T</sub> =25V		Z <sub>T</sub> @ V <sub>T</sub> =25V	Z <sub>K</sub> @ V <sub>K</sub> =6.0V	V <sub>L</sub> @ I <sub>L</sub> =0.8 x I <sub>P</sub> MIN	т <sub>С</sub>		
	MIN mA	NOM mA	MAX mA	kΩ	kΩ	V	%/°C
CCLH080	6.56	8.20	9.84	320	15	3.1	-0.25 to -0.45
CCLH100	8.00	10.0	12.0	170	6.0	3.5	-0.25 to -0.45
CCLH120	9.60	12.0	14.4	80	3.0	3.8	-0.25 to -0.45
CCLH150	12.0	15.0	18.0	30	2.0	4.3	-0.25 to -0.45

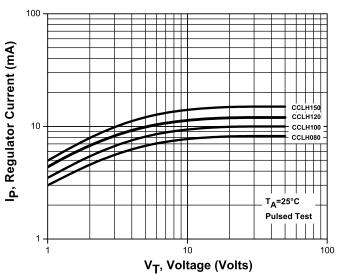
Notes: (1) Pulsed Method: Pulse Width (ms) = 27.5 divided by  $I_P$  NOM (mA) (2) The Temperature Coefficient is measured between + 25°C and +50°C.

# CCLH080 CCLH120 CCLH150

# SILICON CURRENT LIMITING DIODE

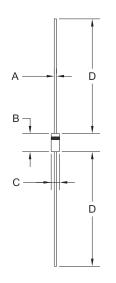






### **DO-35 CASE - MECHANICAL OUTLINE**

R1



DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
Α	0.018	0.022	0.46	0.56			
В	0.120	0.200	3.05	5.08			
С	0.060	0.090	1.52	2.29			
D	1.000	-	25.40	-			

DO-35 (REV: R1)

MARKING: FULL PART NUMBER

R2 (31-August 2012)

### **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 (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

### **CONTACT US**

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