

145 Adams Ave., Hauppauge, NY 11788 USA Phone (631) 435-1110 FAX (631) 435-1824

Manufacturers of World Class Discrete Semiconductors www.centralsemi.com CCLH080 THRU CCLH150

HIGH CURRENT CURRENT LIMITING DIODE

**JEDEC DO-35 CASE** 

## **DESCRIPTION**

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 Ip (regulator current) are available for critical applications.

MAXIMUM RATINGS (T<sub>I</sub> =75°C unless otherwise noted)

	<u>SYMBOL</u>	<u>UNITS</u>	
Peak Operating Voltage	POV	50	V
Power Dissipation	$P_D$	600	mW
Operating and Storage			
Junction Temperature	$T_J, T_sta$	-65 to +200	°C

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

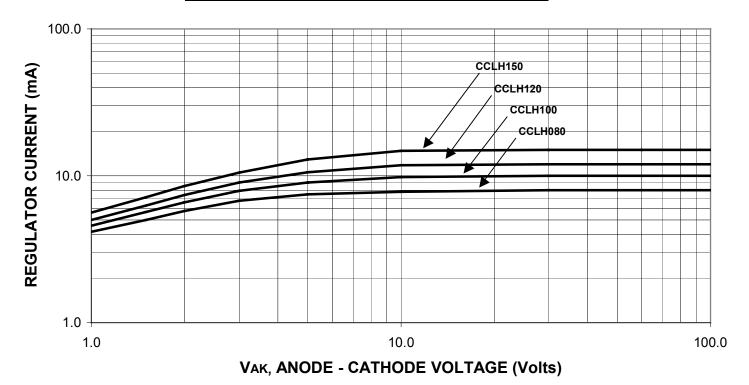
TYPE NO.	REGULATOR		DYNAMIC	KNEE	LIMITING	TEMPERATURE	
· · · · E · · · · ·	CURRENT(1)		IMPEDANCE	IMPEDANCE	VOLTAGE	COEFFICIENT	
	IP @ VT=25V		ZT @ VT=25V	Zĸ @ Vĸ=6.0V	VL @ IL=0.8 IP MIN	TC*	
	mA		MΩ	kΩ	V	%/°C	
	MIN	NOM	MAX	MIN	MIN	MAX	
CCLH080	6.56	8.20	9.84	0.32	15	3.1	-0.25 TO -0.45
CCLH100	8.00	10.0	12.0	0.17	6.0	3.5	-0.25 TO -0.45
CCLH120	9.60	12.0	14.4	0.08	3.0	3.8	-0.25 TO -0.45
CCLH150	12.0	15.0	18.0	0.03	2.0	4.3	-0.25 TO -0.45

<sup>\*</sup>The Temperature Coefficient is measured between the following points: +25°C, +50°C

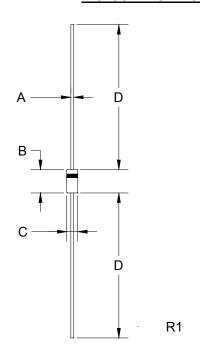
(1) PULSED METHOD PULSE WIDTH (ms) =  $27.5 / I_P$  NOM (mA)

CCLH080 SERIES CURRENT LIMITING DIODE

## TYPICAL REGULATOR CURRENT VS. VOLTAGE



## DO-35 PACKAGE - MECHANICAL OUTLINE



DIMENSIONS								
	INC	HES	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)								

DO-35 (REV: R1)



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