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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 I_P (regulator current) are available for critical applications.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (TL=75°C)	SYMBOL		UNITS
Peak Operating Voltage	POV	50	V
Power Dissipation	PD	600	mW
Operating and Storage Junction Temperature	TJ, Tstg	-65 to +200	°C

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

Туре	Regulator Current (Note 1) I _P @ V _T =25V			Minimum Dynamic Impedance Z _T @ V _T =25V	Minimum Knee Impedance Z _K @ V _K =6.0V	Maximum Limiting Voltage V _L @ I _L =0.8 x I _P MIN	Temperature Coefficient (Note 2) T _C
	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)

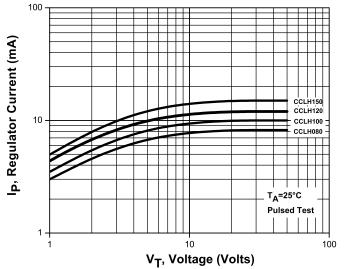
(2) The Temperature Coefficient is measured between + 25°C and +50°C.

R2 (31-August 2012)



CCLH080 CCLH120 CCLH100 CCLH150

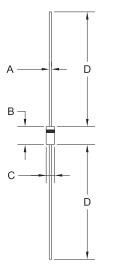
SILICON CURRENT LIMITING DIODE



Typical Regulator Current vs Voltage

DO-35 CASE - MECHANICAL OUTLINE

R1



DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
A	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)

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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

· Custom bar coding for shipments

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

- · Custom product packing
- - · 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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