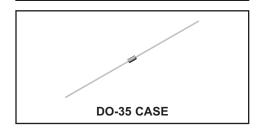
CCLH080 CCLH120 CCLH150

SILICON CURRENT LIMITING DIODE





www.centralsemi.com

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.

MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T _L =75°C)
Peak Operating Voltage
Power Dissipation
Operating and Storage Junction Temperature

SYMBOL		UNITS
P_{OV}	50	V
P_{D}	600	mW
T _J , T _{stg}	-65 to +200	°C

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

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

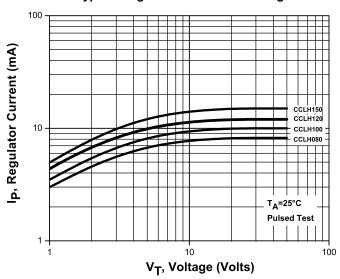
Notes: (1) Pulsed Method: Pulse Width (ms) = 27.5 divided by I_P NOM (mA) (2) The Temperature Coefficient is measured between + 25°C and +50°C.

CCLH080 CCLH120 CCLH100 CCLH150



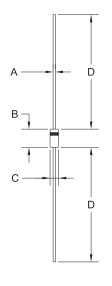


Typical Regulator Current vs Voltage



DO-35 CASE - MECHANICAL OUTLINE

R1



DIMENSIONS							
	INCHES		MILLIM	ETERS			
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 guick 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

REQUESTING PRODUCT PLATING

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

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