DATA SHEET

Central™
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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 I_P (regulator current) are available for critical applications.

MAXIMUM RATINGS (T_L=75°C unless otherwise noted)

	SYMBOL		UNITS
Peak Operating Voltage	POV	50	V
Power Dissipation	P_D	600	mW
Operating and Storage Junction Temperature	T_J,T_{stg}	-65 to +200	°C

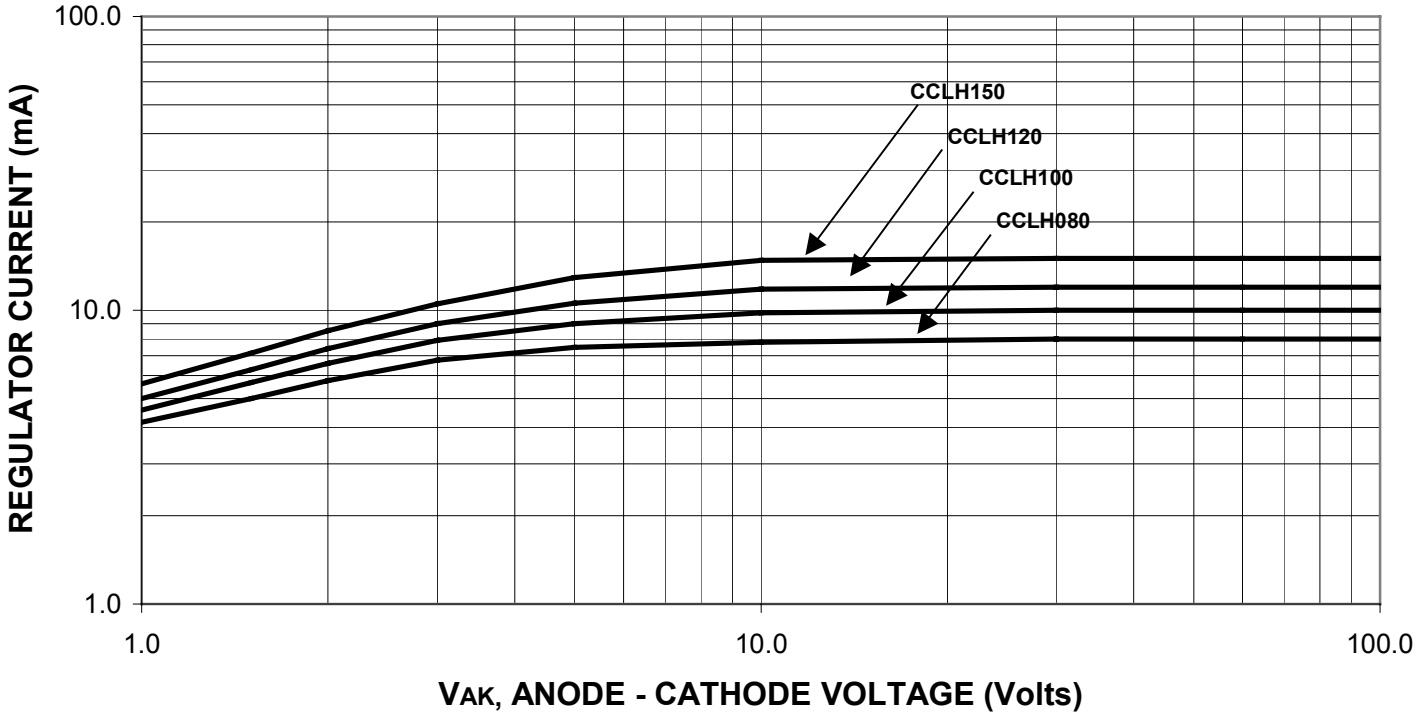
ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

TYPE NO.	REGULATOR CURRENT(1)			DYNAMIC IMPEDANCE	KNEE IMPEDANCE	LIMITING VOLTAGE	TEMPERATURE COEFFICIENT
	I_P @ V_T=25V			Z_T @ V_T=25V	Z_K @ V_K=6.0V	V_L @ I_L=0.8 I_P MIN	TC*
	mA			M Ω	k Ω	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

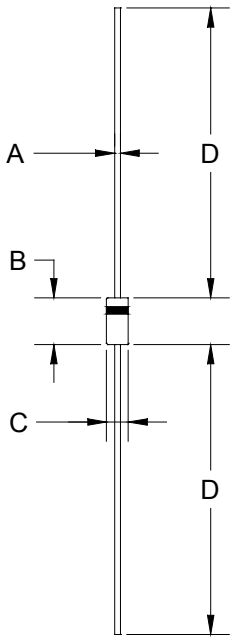
*The Temperature Coefficient is measured between the following points: +25°C, +50°C

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

TYPICAL REGULATOR CURRENT VS. VOLTAGE



DO-35 PACKAGE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.018	0.022	0.46	0.56
B	0.120	0.200	3.05	5.08
C	0.060	0.090	1.52	2.29
D	1.000	-	25.40	-

DO-35 (REV: R1)

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