

High Current Current Limiting Diode CCLH080 Thru CCLH150

JEDEC DO-35 Case

FEATURES:

- LOW COST
- HIGH RELIABILITY
- SMALLER CASE SIZE THAN COMPETITION
- SPECIAL SELECTIONS AVAILABLE
- SUPERIOR LOT-TO-LOT CONSISTENCY
- SURFACE MOUNT DEVICES AVAILABLE

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 savings and improved thermal characteristics. Special selections of Ip (regulator current) are available for critical applications.

MAXIMUM RATINGS: $(T_{L} = 75^{\circ}C)$	SYMBOL		UNITS
Peak Operating Voltage	POV	50	V
Power Dissipation	PD	600	mW
Operating and Storage Junction Temperature	T _J ,T _{stg}	-65 to +200	°C

ELECTRICAL CHARACTERISTICS: (T_A=25°C)

TYPE NO.			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		MΩ	kΩ	VOLTS	% / °C	
	MIN	NOM	МАХ	MIN	MIN	МАХ	
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

(1) PULSED METHOD. PULSE WIDTH (ms) =

27.5 IP NOM (mA)

* The Temperature Coefficient is measured between the following points: +25 $^\circ\text{C}$ and +50 $^\circ\text{C}$



Typical Regulator Current vs. Voltage



Typical Regulator Current vs. Temperature



