

**CCLHM080
THRU
CCLHM150**

**HIGH CURRENT
CURRENT LIMITING DIODE**



SOD-80 CASE

**Central™
Semiconductor Corp.**

FEATURES

- LOW COST
- SUPERIOR LOT TO LOT CONSISTENCY
- HIGH RELIABILITY
- LEADED DEVICES AVAILABLE
- SPECIAL SELECTIONS AVAILABLE

DESCRIPTION

The CENTRAL SEMICONDUCTOR CCLHM080 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 SOD-80 double plug case which provides many benefits to the user including space savings and improved thermal characteristics. Special selections of I_p (regulator current) are available for critical applications.

MAXIMUM RATINGS ($T_L=75^\circ\text{C}$)

Peak Operating Voltage
Power Dissipation
Operating and Storage
Junction Temperature

SYMBOL

POV
 P_D

T_J, T_{stg}

50
800

-65 to +200

UNITS

V
mW

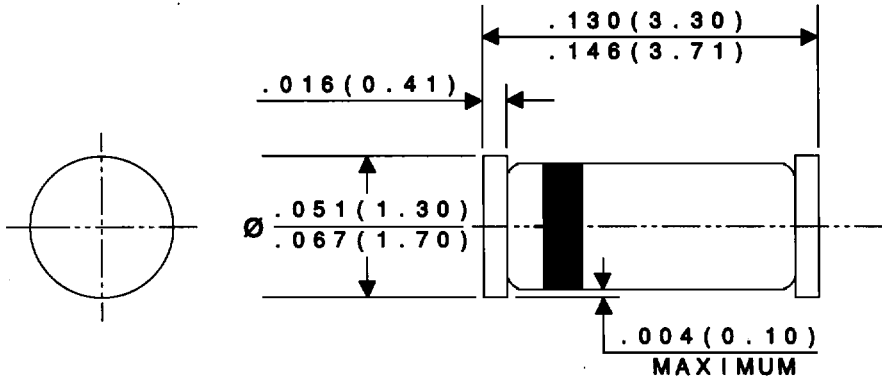
$^\circ\text{C}$

TYPE NO.	REGULATOR CURRENT (1)			DYNAMIC IMPEDANCE	KNEE IMPEDANCE	LIMITING VOLTAGE	TEMPERATURE COEFFICIENT
	$I_p @ V_T = 25V$			$Z_T @ V_T = 25V$	$Z_K @ V_K = 6.0V$	$V_L @ I_L = 0.8 I_p \text{ MIN}$	TC^*
	mA			$M\Omega$	$K\Omega$	VOLTS	$\%/^\circ\text{C}$
	MIN	NOM	MAX	MIN	MIN	MAX	
CCLHM080	6.56	8.20	9.84	0.32	15	3.1	-0.25 TO -0.45
CCLHM100	8.00	10.0	12.0	0.17	6.0	3.5	-0.25 TO -0.45
CCLHM120	9.60	12.0	14.4	0.08	3.0	3.8	-0.25 TO -0.45
CCLHM150	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 $^\circ\text{C}$, +50 $^\circ\text{C}$.

(1) TESTED USING THE PULSED METHOD. $\left(\text{PULSE WIDTH (ms)} = \frac{27.5}{I_p \text{ NOM (mA)}} \right)$

All dimensions in inches (mm).



Marking Codes:

CENTRAL TYPE NO.	BAND 1*	BAND 2	BAND 3
CCLHM080	BLACK	GREEN	YELLOW
CCLHM100	BLACK	ORANGE	PINK
CCLHM120	BLACK	ORANGE	WHITE
CCLHM150	BLACK	ORANGE	LIGHT BLUE

* Cathode Band

DATA SHEET