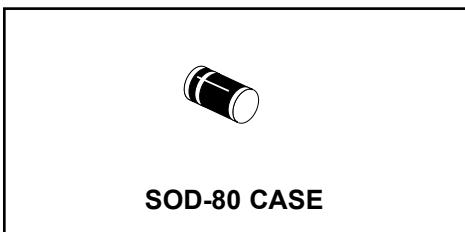


**CCLHM080**  
**THRU**  
**CCLHM150**  
**SURFACE MOUNT**  
**HIGH CURRENT**  
**CURRENT LIMITING DIODE**



**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 saving and improved thermal characteristics. Special selections of  $I_P$  (regulator current) are available for critical applications.

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

	<b>SYMBOL</b>		<b>UNITS</b>
Peak Operating Voltage	$\text{POV}$	50	V
Power Dissipation	$P_D$	800	mW
Operating and Storage			
Junction Temperature	$T_J, T_{\text{stg}}$	-65 to +200	$^\circ\text{C}$

<b>TYPE NO.</b>	<b>REGULATOR(1) CURRENT</b>			<b>DYNAMIC IMPEDANCE</b>	<b>KNEE IMPEDANCE</b>	<b>LIMITING VOLTAGE</b>	<b>TEMPERATURE COEFFICIENT</b>
	$I_P@V_T=25\text{V}$			$Z_T@V_T=25\text{V}$	$Z_K@V_K=6.0\text{V}$	$V_L@I_L=0.8 I_P \text{ MIN}$	$\text{TC}^*$
	<b>mA</b>			<b>M}\Omega</b>	<b>k}\Omega</b>	<b>VOLTS</b>	<b>%/}^\circ\text{C}</b>
	<b>MIN</b>	<b>NOM</b>	<b>MAX</b>	<b>MIN</b>	<b>MIN</b>	<b>MAX</b>	
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) PULSED METHOD. 
$$\left( \text{PULSE WIDTH (ms)} = \frac{27.5}{I_{P\text{NOM}} \text{ (mA)}} \right)$$

R3 ( 21-August 2001)

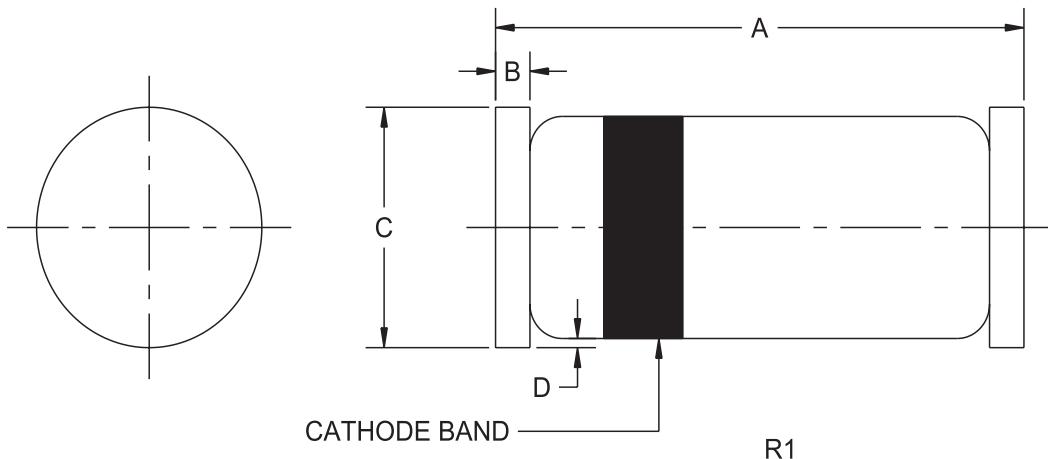
**Central**<sup>TM</sup>  
**Semiconductor Corp.**

**FEATURES:**

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

SURFACE MOUNT  
HIGH CURRENT  
CURRENT LIMITING DIODE

SOD-80 CASE - MECHANICAL OUTLINE



DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.130	0.146	3.30	3.71
B		0.016		0.41
C (DIA)	0.051	0.067	1.30	1.70
D	-	0.004	-	0.10

SOD-80 (REV:R1)

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

R3 ( 21-August 2001)