

SURFACE MOUNT HIGH CURRENT SILICON CURRENT LIMITING DIODE



FEATURES:

- Low Cost
- High Reliability
- Smaller Case Size than Competition
- Special Selections Available
- Superior Lot to Lot Consistency
- Leaded Devices Available



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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 Ip (regulator current) are available for critical applications.

MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE

MAXIMUM RATINGS: (T _L =75°C)	SYMBOL		UNITS
Peak Operating Voltage	Pov	50	V
Power Dissipation	PD	800	mW
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +200	°C

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

Туре	Regulator Current (Note 1) I _P @ V _T =25V		Minimum Dynamic Impedance Z _T @ V _T =25V	Minimum Knee Impedance Z _K @ V _K =6.0V	Maximum Limiting Voltage VL @ IL=0.8 x Ip MIN	Temperature Coefficient (Note 2) TC	
	MIN (mA)	NOM (mA)	MAX (mA)	MΩ	kΩ	v	%/°C
CCLHM080	6.56	8.2	9.84	0.32	15	3.1	-0.25 to -0.45
CCLHM100	8.0	10.0	12.0	0.17	6.0	3.5	-0.25 to -0.45
CCLHM120	9.6	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

Notes:

1) Pulsed Method: Pulse Width (ms) = 27.5 divided by I_P NOM (mA)

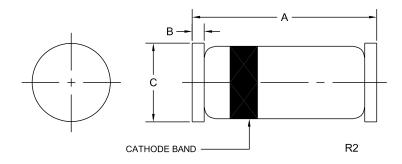
2) The Temperature Coefficient is measured between + 25°C and +50°C.

R6 (4-January 2010)



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SOD-80 CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.130	0.146	3.30	3.71
В	0.014		0.35	
C (DIA)	0.049	0.067	1.25	1.70
SOD-80 (REV:R2)				

MARKING CODES					
TYPE	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

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