CCLHM080 THRU CCLHM150

SURFACE MOUNT HIGH CURRENT CURRENT LIMITING DIODE



SOD-80 CASE

DESCRIPTION:



FEATURES:

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

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.

MAXIMUM RATINGS: $(T_1 = 75^{\circ}C)$

	SYMBOL		UNITS	
Peak Operating Voltage	POV	50	V	
Power Dissipation	P_{D}	800	mW	
Operating and Storage	_			
Junction Temperature	T_J, T_stg	-65 to +200	°C	

TYPE NO.		URREN		DYNAMIC IMPEDANCE	KNEE IMPEDANCE	LIMITING VOLTAGE	TEMPERATURE COEFFICIENT
	Ι _Ρ	@V _T =2	5V	Z _T @V _T =25V	Z _K @V _K =6.0V	V _L @I _L =0.8 I _P MIN	TC*
		mA		МΩ	kΩ	VOLTS	%/°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°C, +50°C

(1) PULSED METHOD. PULSE WIDTH (ms)=
$$\frac{27.5}{\text{IpNOM (mA)}}$$

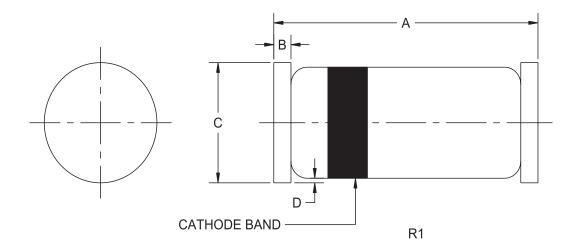
R3 (21-August 2001)



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SOD-80 CASE - MECHANICAL OUTLINE



DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
Α	0.130	0.146	3.30	3.71
В	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