

CLL457A
CLL459A

**SURFACE MOUNT
LOW LEAKAGE SILICON DIODE**



SOD-80 CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CLL457A, CLL459A types are silicon planar diodes, manufactured in a hermetically sealed glass surface mount package, designed for low leakage applications.

MARKING: CATHODE BAND

MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$)

Peak Repetitive Reverse Voltage
Peak Working Reverse Voltage
Average Forward Current
Forward Steady-State Current
Peak Forward Surge Current (1.0 μs pulse)
Power Dissipation
Operating and Storage Junction Temperature
Thermal Resistance

SYMBOL	<u>CLL457A</u>	<u>CLL459A</u>	UNITS
V_{RRM}	70	200	V
V_{RWM}	60	175	V
I_O		200	mA
I_F		500	mA
I_{FSM}		4.0	A
P_D		500	mW
T_J, T_{stg}	-65 to +200		$^\circ\text{C}$
θ_{JA}	350		$^\circ\text{C/W}$

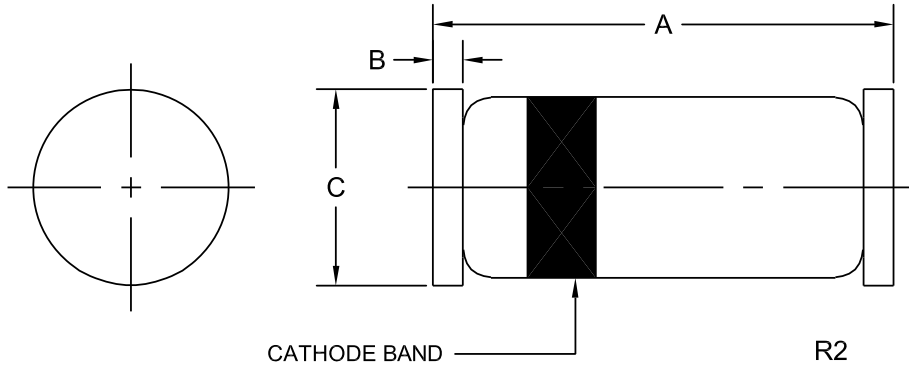
ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	<u>CLL457A</u>		<u>CLL459A</u>		UNITS
		MIN	MAX	MIN	MAX	
I_R	$V_R=\text{Rated } V_{RWM}$		25		25	nA
I_R	$V_R=\text{Rated } V_{RWM}, T_A=150^\circ\text{C}$		5.0		5.0	μA
BV_R	$I_R=100\mu\text{A}$	70		200		V
V_F	$I_F=100\text{mA}$		1.0		1.0	V
C_T	$V_R=0, f=1.0\text{MHz}$		6.0		6.0	pF

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SOD-80 CASE - MECHANICAL OUTLINE



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DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.130	0.146	3.30	3.71
B	0.014		0.35	
C (DIA)	0.049	0.067	1.25	1.70

SOD-80 (REV:R2)

R5 (8-January 2010)