

CLL457A  
CLL459A

**SURFACE MOUNT  
LOW LEAKAGE SILICON DIODE**



**SOD-80 CASE**

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

**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 CODE: CATHODE BAND**

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

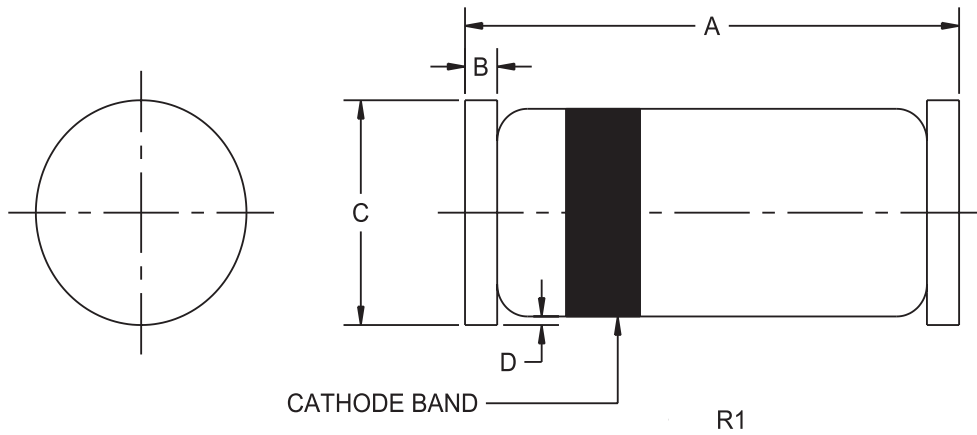
	<b>SYMBOL</b>	<b>CLL457A</b>	<b>CLL459A</b>	<b>UNITS</b>
Peak Repetitive Reverse Voltage	$V_{RRM}$	70	200	V
Peak Working Reverse Voltage	$V_{RWM}$	60	175	V
Average Forward Current	$I_O$		200	mA
Forward Steady-State Current	$I_F$		500	mA
Peak Forward Surge Current (1.0 $\mu\text{s}$ pulse)	$I_{FSM}$		4.0	A
Power Dissipation	$P_D$		500	mW
Operating and Storage				
Junction Temperature	$T_J, T_{stg}$	-65 to +200		$^\circ\text{C}$
Thermal Resistance	$\Theta_{JA}$	350		$^\circ\text{C/W}$

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

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

**SURFACE MOUNT  
LOW LEAKAGE SILICON DIODE**

**SOD-80 - MECHANICAL OUTLINE**



**MARKING CODE: CATHODE BAND**

SYMBOL	DIMENSIONS			
	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)