



## **DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CLL914 type is an ultra-high speed silicon switching diode manufactured by the epitaxial planar process, in a hermetically sealed glass surface mount package, designed for high speed switching applications.

MARKING CODE: CATHODE BAND.

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

	SYMBOL		UNITS
Continuous Reverse Voltage	V <sub>R</sub>	75	V
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	100	V
Continuous Forward Current	١ <sub>F</sub>	250	mA
Peak Repetitive Forward Current	I <sub>FRM</sub>	250	mA
Forward Surge Current, tp=1 µs	IFSM	4.0	А
Forward Surge Current, tp=1 s	IFSM	1.0	А
Power Dissipation	PD	500	mW
Operating and Storage Junction Temperature Thermal Resistance	T <sub>J</sub> ,T <sub>stg</sub> <sup>⊖</sup> JA	-65 to +200 350	°C °C/W
	JA	220	0/11

**ELECTRICAL CHARACTERISTICS** (T<sub>A</sub>=25°C unless otherwise noted)

SYMBOL <sup>BV</sup> R	<b>TEST CONDITIONS</b> I <sub>R</sub> =100μΑ	<b>MIN</b> 100	MAX	UNITS V
I <sub>R</sub>	V <sub>R</sub> =20V		25	nA
I <sub>R</sub>	V <sub>R</sub> =75V		5.0	μA
٧ <sub>F</sub>	I <sub>F</sub> =10mA		1.0	V
CT	V <sub>R</sub> =0, f=1 MHz		4.0	pF
t <sub>rr</sub>	$I_R=I_F=10$ mA, $R_L=100\Omega$ , Rec. to 1.0mA		4.0	ns

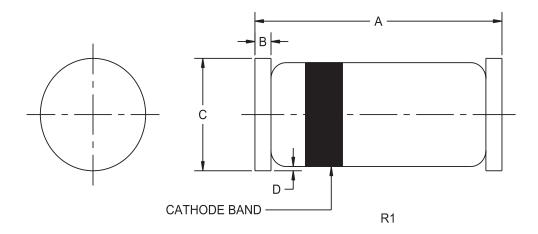
R1 (26-September 2002)



CLL914

HIGH SPEED SWITCHING DIODE

SOD-80 CASE - MECHANICAL OUTLINE



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DIMENSIONS								
INCHES		MILLIMETERS						
MIN	MAX	MIN	MAX					
0.130	0.146	3.30	3.71					
0.016		0.41						
0.051	0.067	1.30	1.70					
-	0.004	-	0.10					
	INC MIN 0.130 0.0	INCHES   MIN MAX   0.130 0.146   0.016 0.067	INCHES MILLIM   MIN MAX MIN   0.130 0.146 3.30   0.016 0.0   0.051 0.067 1.30					

SOD-80 (REV:R1)

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