



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 _R	75	V
Peak Repetitive Reverse Voltage	V _{RRM}	100	V
Continuous Forward Current	١ _F	250	mA
Peak Repetitive Forward Current	I _{FRM}	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 _J ,T _{stg} [⊖] JA	-65 to +200 350	°C °C/W
	JA	220	0/11

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

SYMBOL ^{BV} R	TEST CONDITIONS I _R =100μΑ	MIN 100	MAX	UNITS V
I _R	V _R =20V		25	nA
I _R	V _R =75V		5.0	μA
٧ _F	I _F =10mA		1.0	V
CT	V _R =0, f=1 MHz		4.0	pF
t _{rr}	$I_R=I_F=10$ mA, $R_L=100\Omega$, Rec. to 1.0mA		4.0	ns

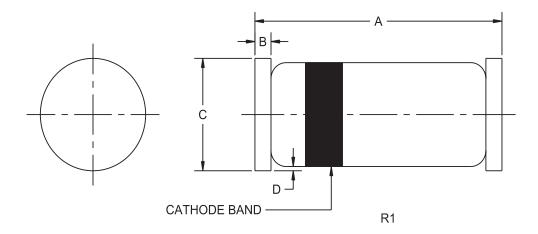
R1 (26-September 2002)



CLL914

HIGH SPEED SWITCHING DIODE

SOD-80 CASE - MECHANICAL OUTLINE



MARKING CODE: CATHODE BAND

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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