#### **CLL914**

# HIGH SPEED SWITCHING DIODE



**SOD-80 CASE** 



#### **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<sub>A</sub>=25°C)

	SYMBOL		UNITS
Continuous Reverse Voltage	$v_R$	75	V
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	100	V
Continuous Forward Current	l <sub>F</sub>	250	mA
Peak Repetitive Forward Current	IFRM	250	mA
Forward Surge Current, tp=1 μsec.	IFSM	4000	mA
Forward Surge Current, tp=1 sec.	l <sub>FSM</sub>	1000	mA
Power Dissipation	PD	500	mW
Operating and Storage	_		
Junction Temperature	$T_{J}, T_{stg}$	-65 to +200	٥C
Thermal Resistance	$\Theta_{JA}$	350	°C/W

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
$V_{BR}$	I <sub>R</sub> =100μΑ	100		V
<sup>I</sup> R	V <sub>R</sub> =20V		25	nA
I <sub>R</sub>	V <sub>R</sub> =75V		5.0	μΑ
$V_{F}$	I <sub>F</sub> =10mA		1.0	·V
C <sub>T</sub>	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

## All dimensions in inches (mm).

