CLL4150

HIGH SPEED SWITCHING DIODE



SOD-80 CASE

Central™ Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CLL4150 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°C)

	SYMBOL		UNITS
Continuous Reverse Voltage	V _R	50	V
Peak Repetitive Reverse Voltage	VRRM	50	V
Continuous Forward Current	I _F	300	mA
Peak Repetitive Forward Current	IFRM	600	mA
Forward Surge Current, tp=1 μsec.	IFSM	4000	mA
Forward Surge Current, tp=1 sec.	IFSM	1000	mA
Power Dissipation	P_{D}	500	mW
Operating and Storage			
Junction Temperature	T_{J}, T_{stg}	-65 to +200	°C
Thermal Resistance	Θ_{JA}	350	oC/M

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
BV _R	I _R =5.0μΑ	75		V
I _R	V _R =50V		100	nA
ν _F	I _F =1.0mA	0.54	0.62	V
٧F	I _F =10mA	0.66	0.74	V
٧F	I _F =50mA	0.76	0.86	V
٧F	I _F =100mA	0.82	0.92	V
٧F	I _F =200mA	0.87	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

All dimensions in inches (mm).

