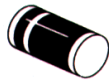


CLL2003

**HIGH VOLTAGE
SWITCHING DIODE**



SOD-80 CASE

CentralTM
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CLL2003 type is a silicon switching diode manufactured by the epitaxial planar process, designed for applications requiring high voltage capability.

Marking Code: Cathode band.

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

	SYMBOL		UNITS
Continuous Reverse Voltage	V_R	250	V
Peak Repetitive Reverse Voltage	V_{RRM}	250	V
Average Forward Current	I_O	200	mA
Continuous Forward Current	I_F	250	mA
Peak Repetitive Forward Current	I_{FRM}	625	mA
Forward Surge Current, $t_p=1\ \mu\text{s}$	I_{FSM}	4000	mA
Forward Surge Current, $t_p=1\ \text{s}$	I_{FSM}	1000	mA
Power Dissipation	P_D	500	mW
Operating and Storage			
Junction Temperature	T_J, T_{stg}	-65 to +200	$^{\circ}\text{C}$
Thermal Resistance	Θ_{JA}	350	$^{\circ}\text{C/W}$

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
BV_R	$I_R=100\ \mu\text{A}$	250		V
I_R	$V_R=200\text{V}$		100	nA
I_R	$V_R=200\text{V}, T_A=150^{\circ}\text{C}$		100	μA
V_F	$I_F=100\text{mA}$		1.00	V
V_F	$I_F=200\text{mA}$		1.25	V
C_T	$V_R=0, f=1\ \text{MHz}$		5.0	pF
t_{rr}	$I_F=I_R=30\text{mA}, \text{RECOV. TO } 3.0\text{mA},$ $R_L=100\ \Omega$		50	ns

All dimensions in inches (mm).

