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Manufacturers of World Class Discrete Semiconductors

CSSD2003

SILICON SWITCHING DIODE

JEDEC DO-35 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR CSSD2003 is a high speed Silicon Switching Diode designed for computer and general purpose applications requiring a high breakdown voltage.

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

	SYMBOL		UNIT
Peak Repetitive Reverse Voltage	V_{RRM}	250	V
Peak Working Reverse Voltage	V_{RWM}	250	V
Average Forward Current	I_O	250	mA
Forward Steady-State Current	I_F	400	mA
Peak Forward Surge Current (1.0s pulse)	I_{FSM}	1.0	A
Power Dissipation	P_D	500	mW
Operating and Storage Junction Temperature	T_J, T_{STG}	-65 TO +200	$^\circ\text{C}$

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

SYMBOL	TEST CONDITIONS	MIN	MAX	UNIT
BV_R	$I_R=100\mu\text{A}$	250		V
I_R	$V_R=150\text{V}$		100	nA
I_R	$V_R=150\text{V}, T_A=150^\circ\text{C}$		100	μA
V_F	$I_F=100\text{mA}$		1.0	V
C_T	$V_R=0, f=1.0\text{MHz}$		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