

# Central<sup>TM</sup> Semiconductor Corp.

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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	$\mu\text{A}$
$V_F$	$I_F=100\text{mA}$		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