

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

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Manufacturers of World Class Discrete Semiconductors

## CN5823 SERIES

SCHOTTKY BARRIER RECTIFIER  
5.0 AMP, 20 THRU 40 VOLTS

JEDEC DO-201AD CASE

### DESCRIPTION

The CENTRAL SEMICONDUCTOR CN5823 Series types are Schottky Barrier Rectifiers mounted in an axial lead epoxy case using a metal to silicon junction to yield low forward voltage drop and an instantaneous reverse recovery times.

### MAXIMUM RATINGS ( $T_A=25^\circ\text{C}$ unless otherwise noted)

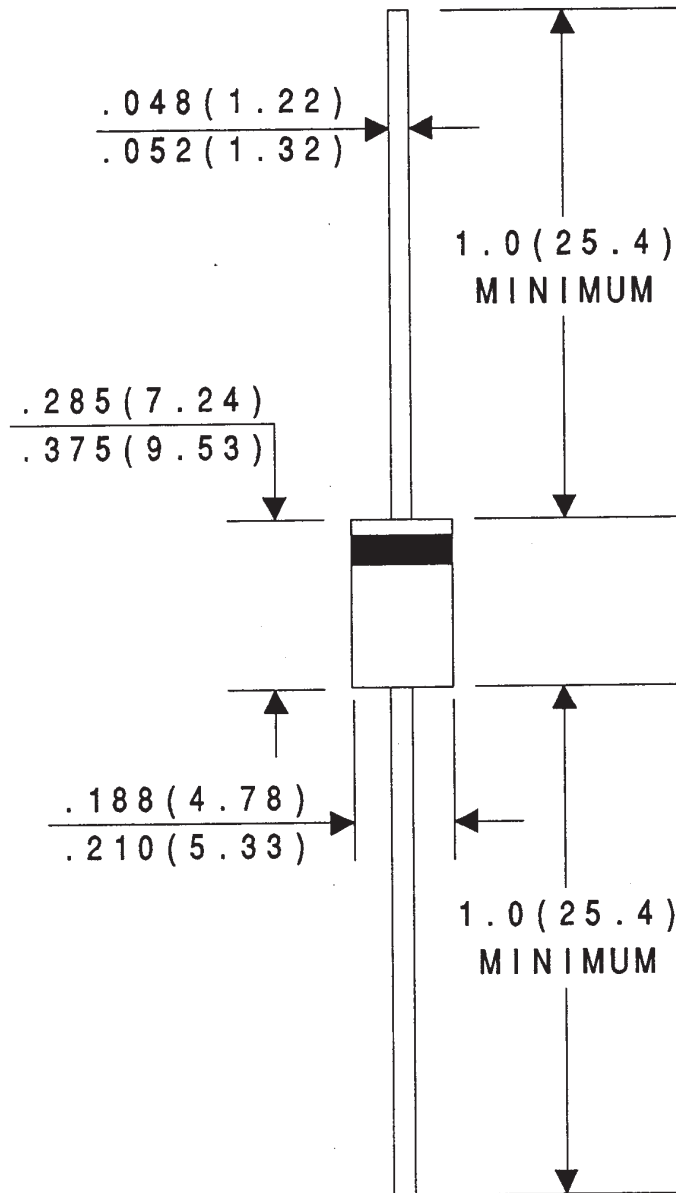
	<u>SYMBOL</u>	<u>CN5823</u>	<u>CN5824</u>	<u>CN5825</u>	<u>UNITS</u>
Peak Repetitive Reverse Voltage	$V_{RRM}$	20	30	40	V
DC Blocking Voltage	$V_R$	20	30	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	21	28	V
Average Forward Current ( $T_A=100^\circ\text{C}$ )	$I_O$		5.0		A
Peak Forward Surge Current	$I_{FSM}$		250		A
Operating and Storage Junction Temperature	$T_J, T_{stg}$		-65 to +150		$^\circ\text{C}$

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

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>MIN</u>	<u>TYP</u>	<u>MAX</u>	<u>UNITS</u>
$I_R$	$V_R=\text{Rated } V_{RRM}$			10	mA
$I_R$	$V_R=\text{Rated } V_{RRM}, T_A=100^\circ\text{C}$			100	mA
$V_F$	$I_F=3.0\text{A}$			0.42	V
$V_F$	$I_F=5.0\text{A}$			0.45	V
$V_F$	$I_F=15.7\text{A}$			0.65	V

(SEE REVERSE FOR MECHANICAL OUTLINE)

JEDEC DO-201AD CASE - MECHANICAL OUTLINE



All Dimensions in Inches (mm)

**Central**<sup>™</sup>  
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