

CentralTM 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°C unless otherwise noted)

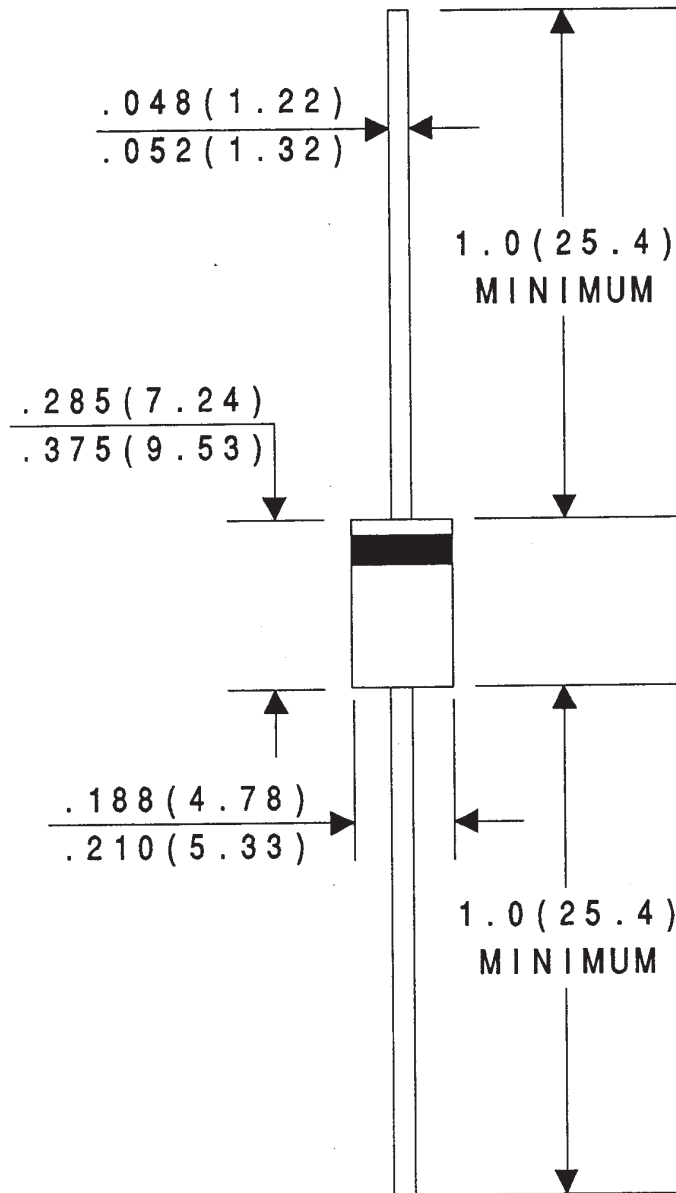
	SYMBOL	CN5823	CN5824	CN5825	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	20	30	40	V
DC Blocking Voltage	V _R	20	30	40	V
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	V
Average Forward Current (T _A =100°C)	I _O		5.0		A
Peak Forward Surge Current	I _{FSM}		250		A
Operating and Storage					
Junction Temperature	T _J , T _{stg}		-65 to +150		°C

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I _R	V _R =Rated V _{RRM}			10	mA
I _R	V _R =Rated V _{RRM} , T _A =100°C			100	mA
V _F	I _F =3.0A			0.42	V
V _F	I _F =5.0A			0.45	V
V _F	I _F =15.7A			0.65	V

(SEE REVERSE FOR MECHANICAL OUTLINE)

JEDEC DO-201AD CASE - MECHANICAL OUTLINE



All Dimensions in Inches (mm)

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