

145 Adams Avenue, Hauppauge, NY 11788 USA Tel: (631) 435-1110 • Fax: (631) 435-1824

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 (TA=25°C unless otherwise noted)

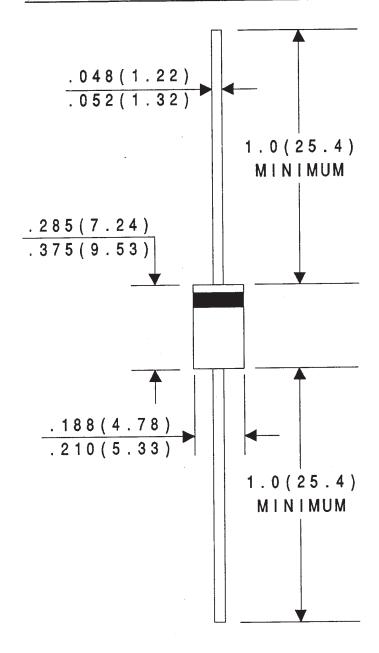
	SYMBOL	<u>CN5823</u>	<u>CN5824</u>	<u>CN5825</u>	<u>UNITS</u>
Peak Repetitive Reverse Voltage	V _{RRM}	20	30	40	V
DC Blocking Voltage	V_{R}	20	30	40	V
RMS Reverse Voltage	V _{R(RMS)}	14	21	28	V
Average Forward Current (T _A =100°C)	lo `		5.0		Α
Peak Forward Surge Current	I _{FSM}		250		Α
Operating and 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	<u>UNITS</u>
I _R	V _R =Rated V _{RRM}			10	mA
I_{R}	V _R =Rated V _{RRM,} T _A =100°C			100	mA
VF	I _F =3.0A			0.42	V
V_{F}	I _F =5.0A			0.45	V
VF	I _F =15.7A			0.65	·V

(SEE REVERSE FOR MECHANICAL OUTLINE)

JEDEC DO-201AD CASE - MECHANICAL OUTLINE



All Dimensions in Inches (mm)





OUTSTANDING SUPPORT AND SUPERIOR SERVICES

PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- · Inventory bonding
- · Consolidated shipping options

- · Custom bar coding for shipments
- · Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- · Online technical data and parametric search
- SPICE models
- · Custom electrical curves
- · Environmental regulation compliance
- · Customer specific screening
- · Up-screening capabilities

- Special wafer diffusions
- · PbSn plating options
- · Package details
- · Application notes
- · Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

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