

CentralTM Semiconductor Corp.

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Manufacturers of World Class Discrete Semiconductors

CDSH-2
CDSH-4

SILICON SCHOTTKY BARRIER DIODE

JEDEC DO-35 CASE

DESCRIPTION

The CENTRAL SEMICONDUCTOR CDSH Series types are Silicon Schottky Barrier Diodes designed for general purpose fast switching applications. This series is an ideal candidate to replace germanium switching diodes and conventional silicon switching diodes where ultra fast switching speeds and very low forward voltage drops are required. Higher voltage devices are available on special order.

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

	<u>SYMBOL</u>	<u>CDSH-2</u>	<u>CDSH-4</u>	<u>UNITS</u>
Peak Inverse Voltage	PIV	20	40	V
Average Forward Current	I_O		200	mA
Peak Forward Surge Current (1 Cycle, 8ms)	I_{FSM}		15	A
Power Dissipation	P_D		400	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)

<u>SYMBOL</u>	<u>TEST CONDITIONS</u>	<u>MIN</u>	<u>TYP</u>	<u>MAX</u>	<u>UNITS</u>
I_R	$V_R = 10\text{V}$ (CDSH-2)			5.0	μA
I_R	$V_R = 30\text{V}$ (CDSH-4)			5.0	μA
BV_R	$I_R = 50\mu\text{A}$ (CDSH-2)	20			V
BV_R	$I_R = 50\mu\text{A}$ (CDSH-4)	40			V
V_F	$I_F = 1.0\text{mA}$			0.3	V
V_F	$I_F = 20\text{mA}$			0.4	V
V_F	$I_F = 200\text{mA}$			0.6	V
t_{rr}	$I_F = I_R = 200\text{mA}$, Rec. to 20mA		5.0		ns
C_{ob}	$V_R = 0\text{V}$, $f = 1.0\text{MHz}$		50		pF

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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Worldwide Distributors:
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For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centrasemi.com/terms

Product End of Life Notification

PDN ID:	PDN01005
Notification Date:	10/01/15
Last Buy Date:	4/01/16
Last Shipment Date	10/01/16

Summary:Schottky diodes manufactured in the DO-35 package are discontinued and now classified as End of Life (EOL).

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by various manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's Product Management Process. Any replacement product will be noted below. The effective date for placing the last purchase order will be six(6) months from the date of this notice and twelve(12) months from the notice date for final shipments; this may be extended if inventory is available.

Central Part Number	Replacement
CDSH-2 BK	CMDSH2-4L BK
CDSH-2 TR	CMDSH2-4L TR
CDSH-4 BK	CMDSH2-4L BK
CDSH-4 TR	CMDSH2-4L TR
CDSH270 BK	N/A
CDSH270 TR	N/A
CDSH270 TR4K	N/A

Central would be happy to assist you by providing additional information or technical data to help locate an alternate source if we have no replacement available. Please email your requests to engineering@centrasemi.com.

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.