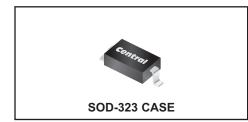


SURFACE MOUNT SILICON HIGH CURRENT LOW V<sub>F</sub> SCHOTTKY DIODE





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# DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMDSH2-4L is a high current, low  $V_F$ , 40 Volt Schottky diode packaged in a space saving SOD-323 surface mount case. This device has been designed for small signal general purpose applications when small size and operational efficiency are prime requirements.

## MARKING CODE: S2L

MAXIMUM RATINGS: (T <sub>A</sub> =25°C)	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	40	V
Continuous Forward Current	١ <sub>F</sub>	200	mA
Peak Forward Surge Current, tp=1.0ms	IFSM	1.0	А
Power Dissipation	PD	250	mW
Operating and Storage Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>	-65 to +150	°C
Thermal Resistance	$\Theta_{JA}$	500	°C/W

ELECTRICAL	CHARACTERISTICS:	(T <sub>A</sub> =25°C unless	otherwise r	oted)

symbol I <sub>R</sub>	TEST CONDITIONS	MIN	<b>TYP</b> 11	<b>MAX</b> 50	<b>UNITS</b> μΑ
BVR	I <sub>R</sub> =100μΑ	40	53		V
V <sub>F</sub>	I <sub>F</sub> =10mA		0.24	0.325	V
V <sub>F</sub>	I <sub>F</sub> =100mA		0.35	0.4	V
V <sub>F</sub>	I <sub>F</sub> =200mA		0.42	0.5	V
СЈ	V <sub>R</sub> =4.0V, f=1.0MHz		8.5	10	pF
t <sub>rr</sub>	$I_F = I_R = 10 \text{mA}, I_{rr} = 1.0 \text{mA}, R_L = 100 \Omega$		4.0	5.0	ns

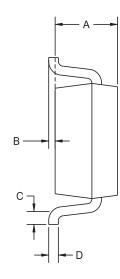
R3 (13-November 2015)

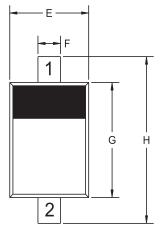




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## SOD-323 CASE - MECHANICAL OUTLINE





R4

LEAD CODE: 1) Cathode 2) Anode

MARKING CODE: S2L

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.031	0.039	0.80	1.00
В	0.000	0.004	0.00	0.10
С	0.008	-	0.20	-
D	0.004	0.007	0.11	0.19
E	0.045	0.053	1.15	1.35
F	-	0.014	-	0.35
G	0.063	0.071	1.60	1.80
Н	0.094	0.102	2.40	2.60
SOD-323 (REV/· R4)				

SOD-323 (REV: R4)

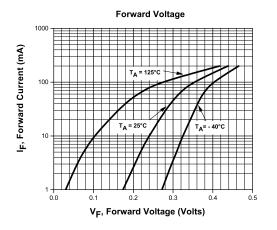
R3 (13-November 2015)

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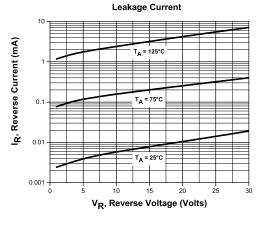


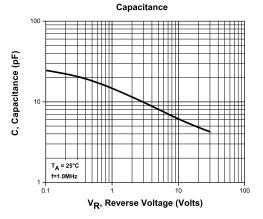
CMDSH2-4L

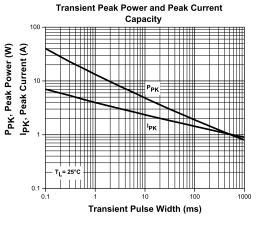
SURFACE MOUNT SILICON HIGH CURRENT LOW V<sub>F</sub> SCHOTTKY DIODE



## TYPICAL ELECTRICAL CHARACTERISTICS







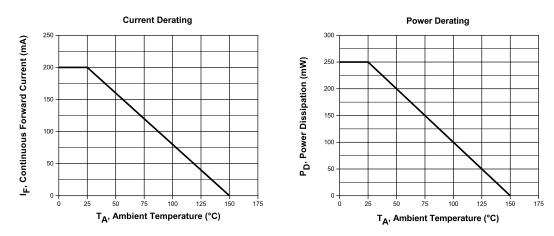
### R3 (13-November 2015)

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CMDSH2-4L

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# TYPICAL ELECTRICAL CHARACTERISTICS

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R3 (13-November 2015)

# **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

#### **DESIGNER SUPPORT/SERVICES**

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

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

ss your design challenges.

· Custom product packing

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

Custom bar coding for shipments

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).
- 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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