

**CMDSH2-3**

**SURFACE MOUNT SILICON  
HIGH CURRENT SCHOTTKY DIODE**



**SOD-323 CASE**



[www.centrasemi.com](http://www.centrasemi.com)

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMDSH2-3 is a silicon Schottky diode, manufactured in a SOD-323 surface mount package, designed for applications requiring a low forward voltage drop.

**MARKING CODE: S2**

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

Peak Repetitive Reverse Voltage

Continuous Forward Current

Peak Forward Surge Current,  $t_p=10\text{ms}$

Power Dissipation

Operating and Storage Junction Temperature

Thermal Resistance

**SYMBOL**

$V_{RRM}$

30

$I_F$

200

$I_{FSM}$

1.0

$P_D$

250

$T_J, T_{stg}$

-65 to +150

$\Theta_{JA}$

500

**UNITS**

V

mA

A

mW

$^{\circ}\text{C}$

$^{\circ}\text{C/W}$

**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^{\circ}\text{C}$ )

**SYMBOL      TEST CONDITIONS**

$I_R$        $V_R=30\text{V}$

$BV_R$        $I_R=100\mu\text{A}$

$V_F$        $I_F=2.0\text{mA}$

$V_F$        $I_F=15\text{mA}$

$V_F$        $I_F=100\text{mA}$

$V_F$        $I_F=200\text{mA}$

$C_J$        $V_R=10\text{V}, f=1.0\text{MHz}$

**MIN**

30

**TYP**

19

0.186

0.245

0.35

0.42

6.0

**MAX**

50

0.55

**UNITS**

$\mu\text{A}$

V

V

V

V

V

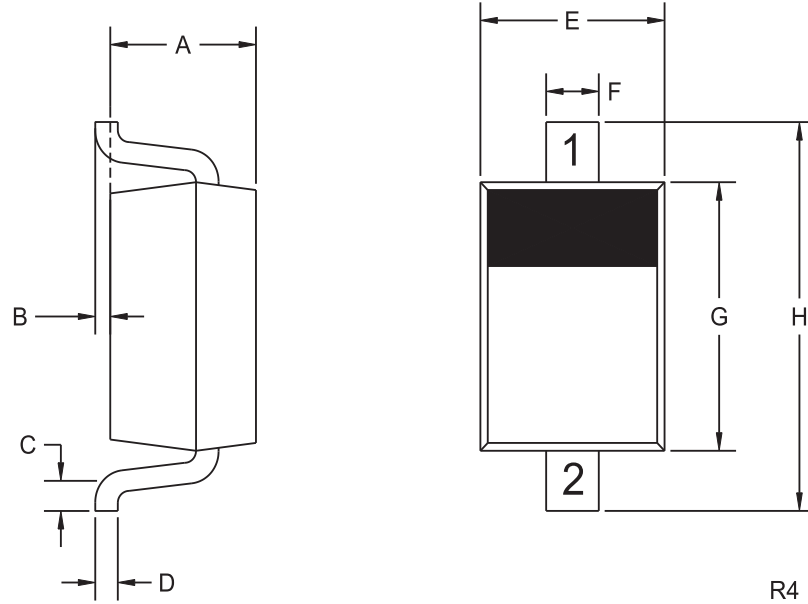
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**SOD-323 CASE - MECHANICAL OUTLINE**



R4

**LEAD CODE:**

- 1) Cathode
- 2) Anode

**MARKING CODE: S2**

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.031	0.039	0.80	1.00
B	0.000	0.004	0.00	0.10
C	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
H	0.094	0.102	2.40	2.60

SOD-323 (REV: R4)

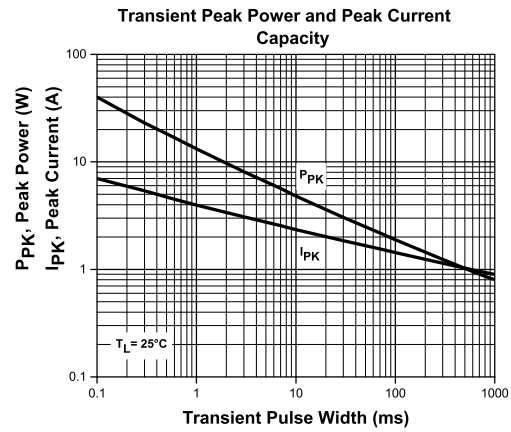
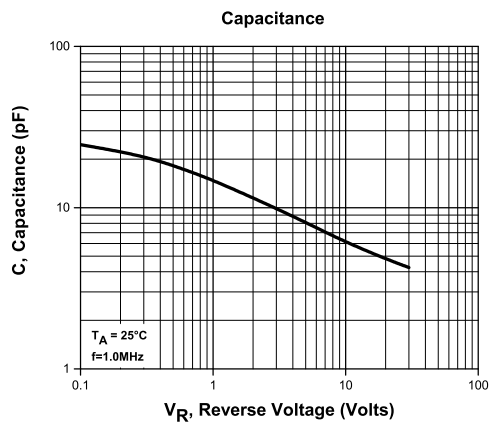
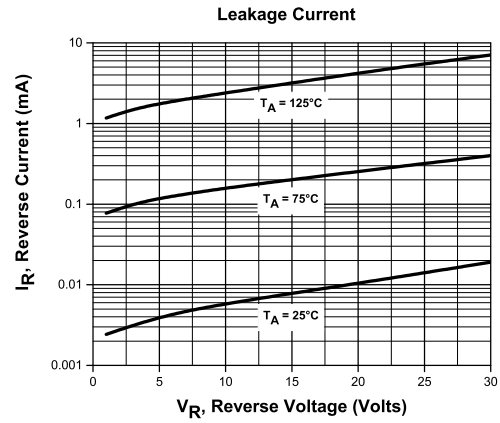
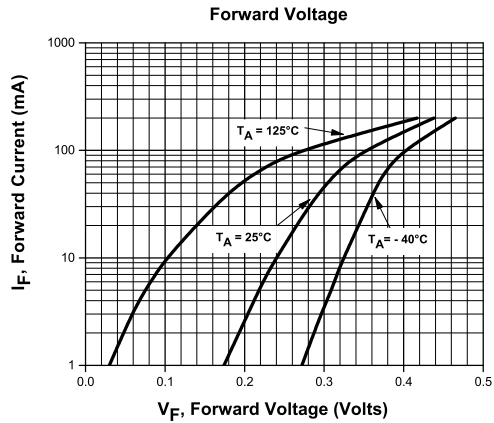
R4 (13-November 2015)

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**TYPICAL ELECTRICAL CHARACTERISTICS**



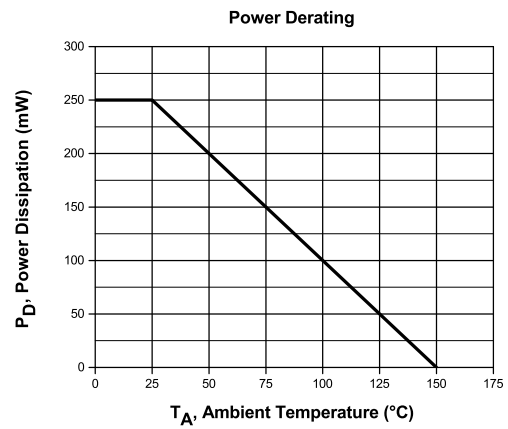
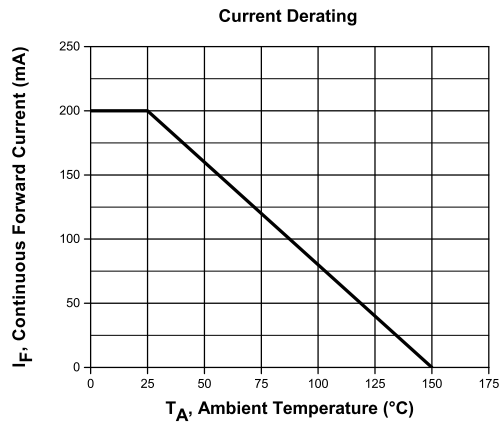
R4 (13-November 2015)

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**TYPICAL ELECTRICAL CHARACTERISTICS**



R4 (13-November 2015)

## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### 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

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

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### 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).

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### CONTACT US

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