

CMDSH2-3

**SURFACE MOUNT SILICON
HIGH CURRENT SCHOTTKY DIODE**



SOD-323 CASE



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}

I_F

I_{FSM}

P_D

T_J, T_{stg}

Θ_{JA}

30

200

1.0

250

-65 to +150

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

μA

V

V

V

V

V

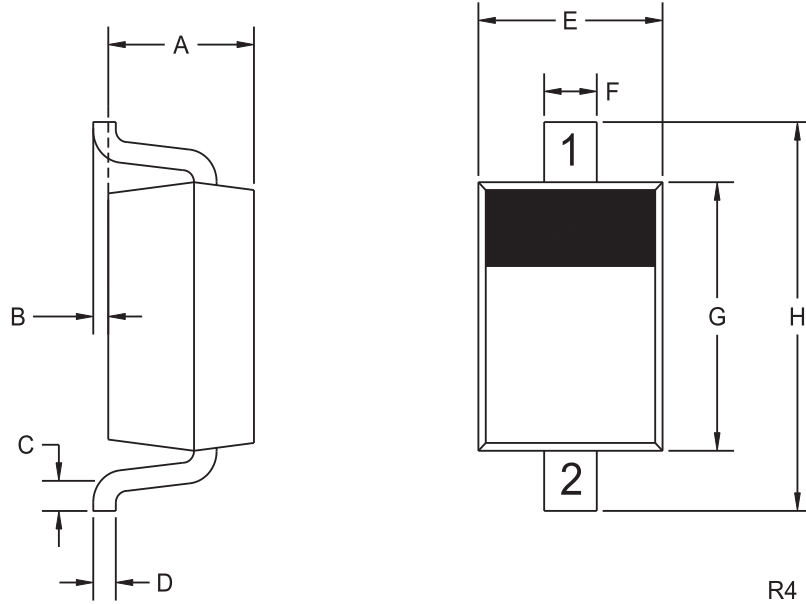
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SOD-323 CASE - MECHANICAL OUTLINE



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)

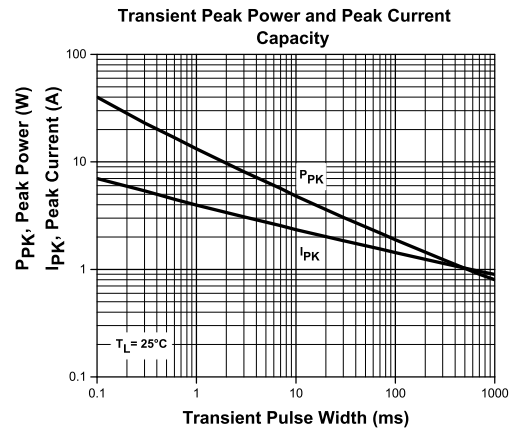
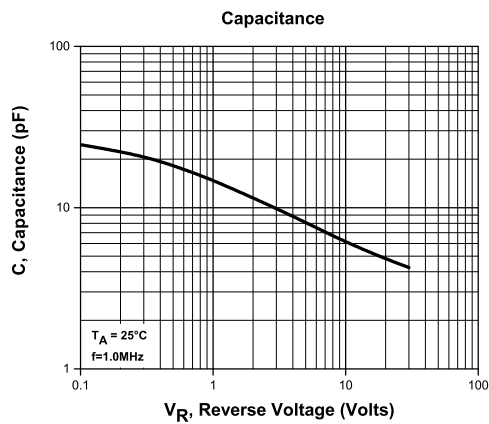
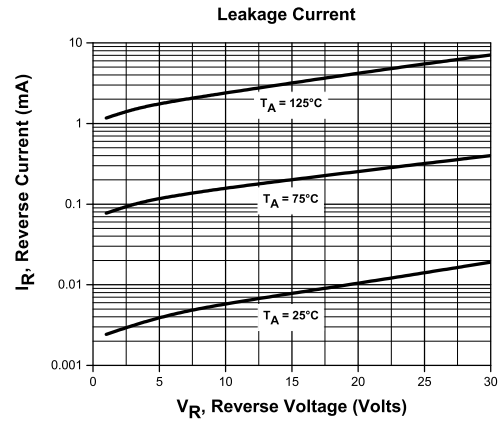
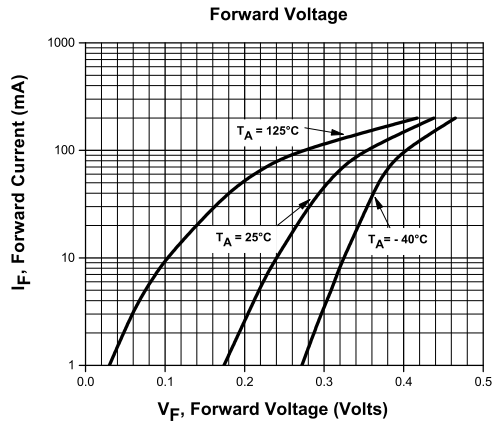
R4 (13-November 2015)

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TYPICAL ELECTRICAL CHARACTERISTICS



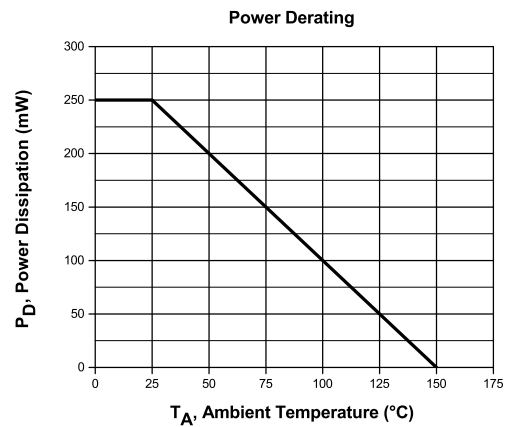
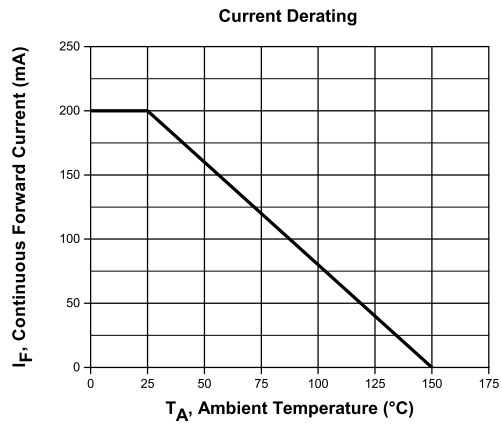
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TYPICAL ELECTRICAL CHARACTERISTICS



R4 (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
- 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

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