

CMDSH2-3**SURFACE MOUNT SILICON
HIGH CURRENT SCHOTTKY DIODE**www.centrasemi.com**SOD-323 CASE****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 | | UNITS |
|----------------|-------------|--------------------|
| V_{RRM} | 30 | V |
| I_F | 200 | mA |
| I_{FSM} | 1.0 | A |
| P_D | 250 | mW |
| T_J, T_{stg} | -65 to +150 | $^\circ\text{C}$ |
| θ_{JA} | 500 | $^\circ\text{C/W}$ |

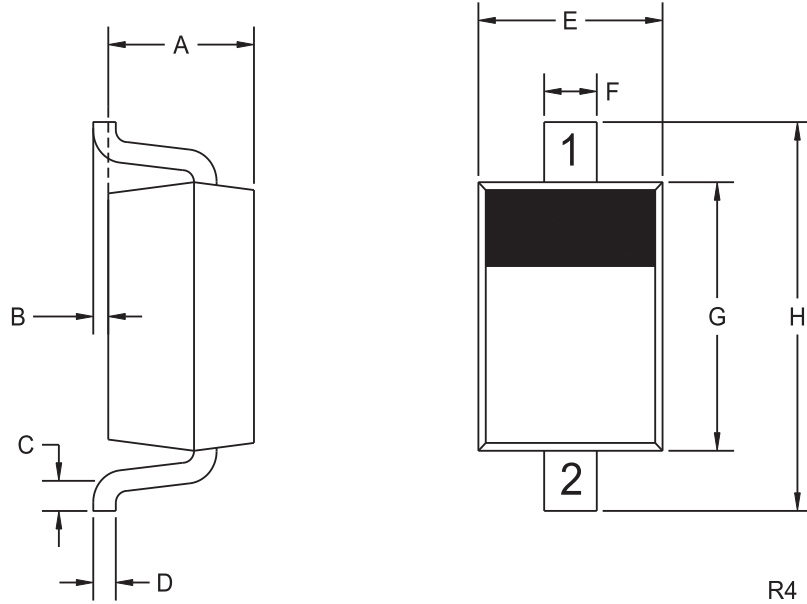
ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$)

| SYMBOL | TEST CONDITIONS | MIN | TYP | MAX | UNITS |
|--------|-----------------------------------|-----|-------|------|---------------|
| I_R | $V_R=30\text{V}$ | | 19 | 50 | μA |
| BV_R | $I_R=100\mu\text{A}$ | 30 | | | V |
| V_F | $I_F=2.0\text{mA}$ | | 0.186 | | V |
| V_F | $I_F=15\text{mA}$ | | 0.245 | | V |
| V_F | $I_F=100\text{mA}$ | | 0.35 | | V |
| V_F | $I_F=200\text{mA}$ | | 0.42 | 0.55 | V |
| C_J | $V_R=10\text{V}, f=1.0\text{MHz}$ | | 6.0 | | pF |

CMDSH2-3
SURFACE MOUNT SILICON
HIGH CURRENT SCHOTTKY DIODE



SOD-323 CASE - MECHANICAL OUTLINE



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 |

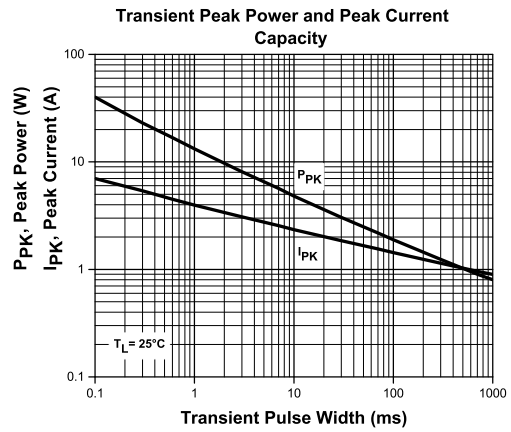
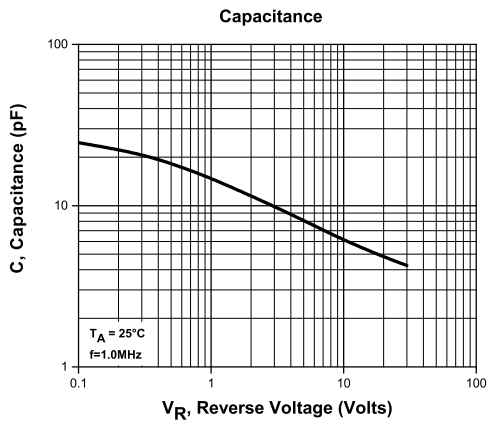
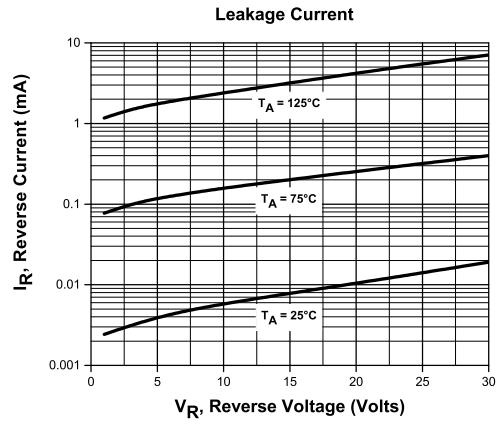
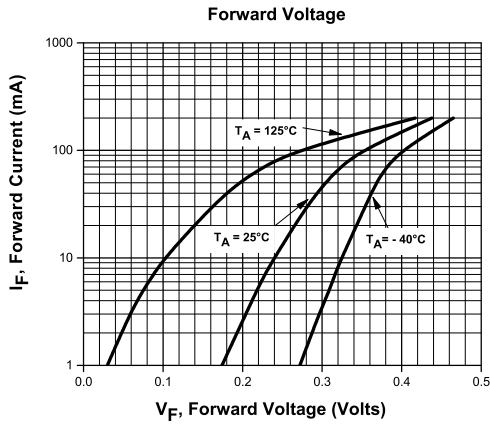
SOD-323 (REV: R4)

R4 (13-November 2015)

CMDSH2-3
SURFACE MOUNT SILICON
HIGH CURRENT SCHOTTKY DIODE



TYPICAL ELECTRICAL CHARACTERISTICS

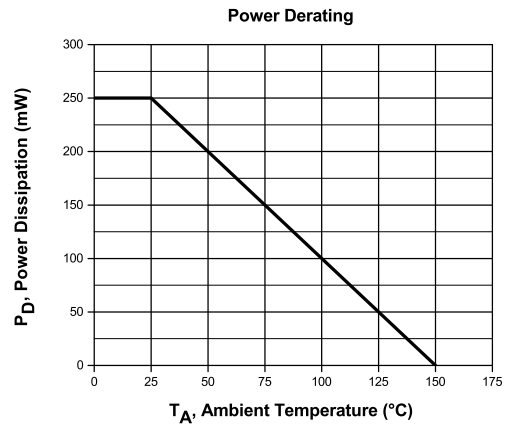
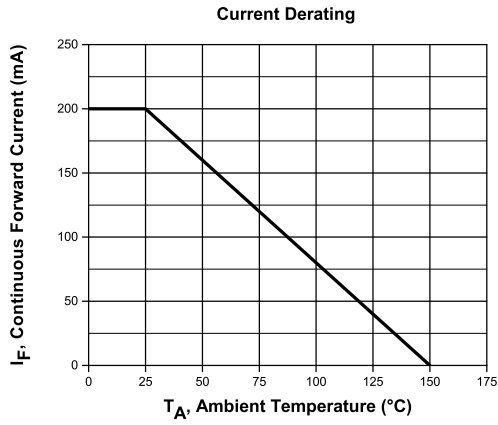


R4 (13-November 2015)

CMDSH2-3
SURFACE MOUNT SILICON
HIGH CURRENT SCHOTTKY DIODE



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

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp.
145 Adams Avenue
Hauppauge, NY 11788 USA
Main Tel: (631) 435-1110
Main Fax: (631) 435-1824
Support Team Fax: (631) 435-3388
www.centrasemi.com

Worldwide Field Representatives:
www.centrasemi.com/wwreps

Worldwide Distributors:
www.centrasemi.com/wwdistributors

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