

CMDD6263

**SURFACE MOUNT SILICON
HIGH VOLTAGE
SCHOTTKY DIODE**



SOD-323 CASE

MARKING CODE: D63

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

Peak Repetitive Reverse Voltage
Continuous Forward Current
Peak Forward Surge Current, $t_p=1.0\text{s}$
Power Dissipation
Operating and Storage Junction Temperature
Thermal Resistance

SYMBOL

| SYMBOL | | UNITS |
|----------------|-------------|--------------------|
| V_{RRM} | 70 | V |
| I_F | 15 | mA |
| I_{FSM} | 50 | mA |
| 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 | $V_R=50\text{V}$ | | 10 | 200 | nA |
| BV_R | $I_R=10\mu\text{A}$ | 70 | | | V |
| V_F | $I_F=1.0\text{mA}$ | | 395 | 410 | mV |
| C_J | $V_R=0, f=1.0\text{MHz}$ | | | 2.0 | pF |
| t_{rr} | $I_R=I_F=10\text{mA}, I_{rr}=1.0\text{mA}, R_L=100\Omega$ | | | 5.0 | ns |



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DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMDD6263 is a High Voltage, low V_F , silicon Schottky diode in a surface mount package, designed for fast switching applications requiring low forward voltage drop.

FEATURES:

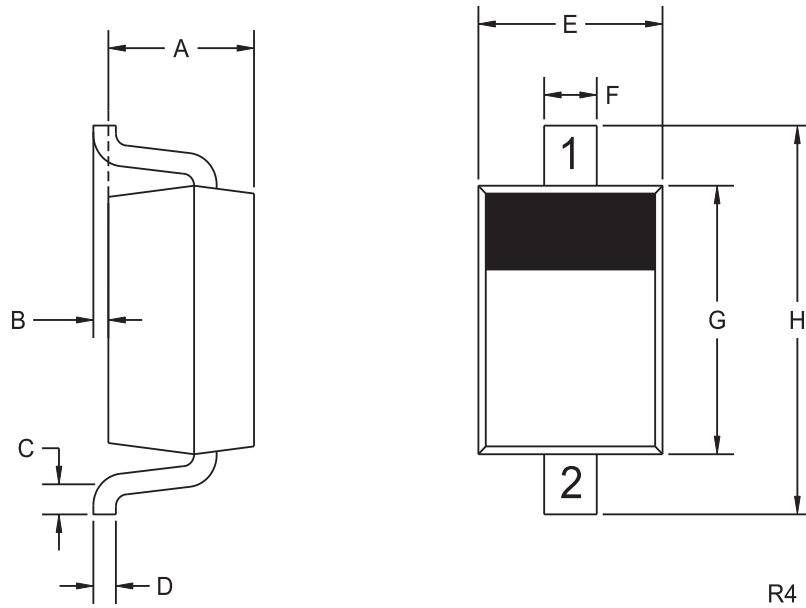
- High Voltage (70V)
- Low Forward Voltage

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SOD-323 CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) Cathode
- 2) Anode

MARKING CODE: D63

| DIMENSIONS | | | | |
|------------|--------|-------|-------------|------|
| SYMBOL | 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)

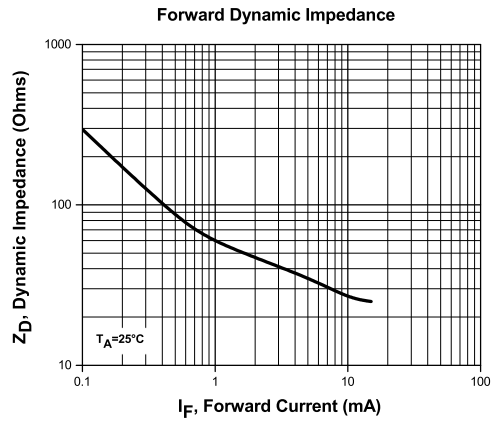
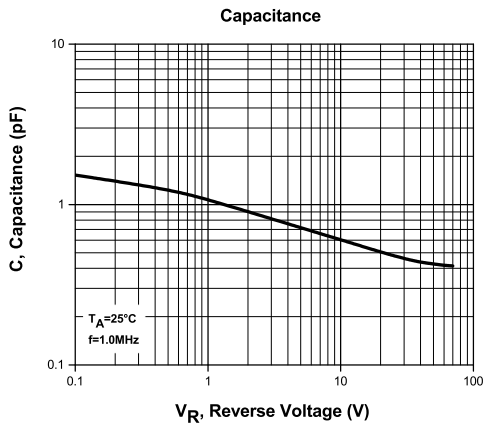
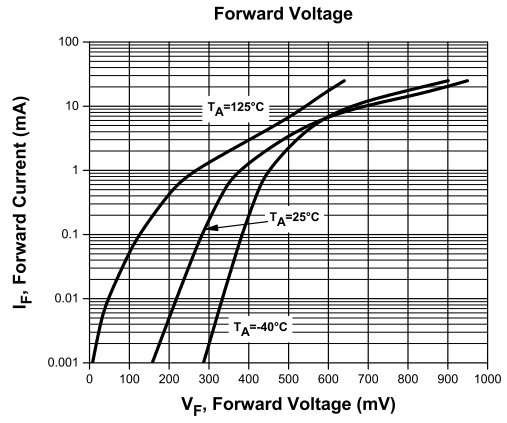
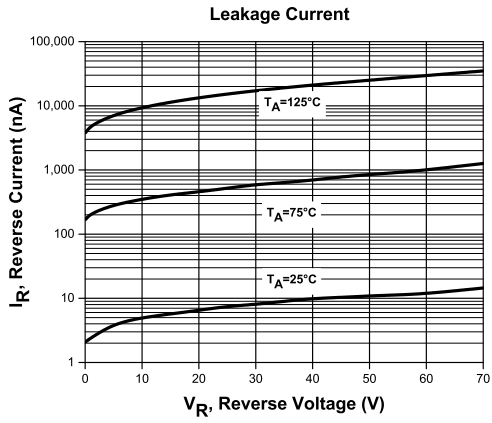
R4 (11-December 2015)

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TYPICAL ELECTRICAL CHARACTERISTICS



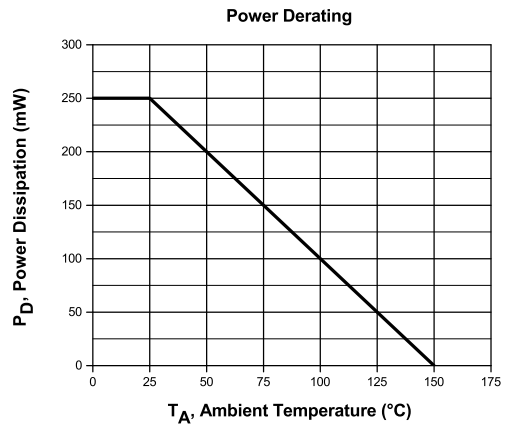
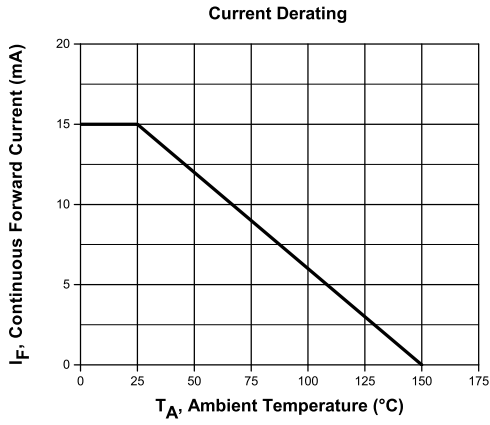
R4 (11-December 2015)

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TYPICAL ELECTRICAL CHARACTERISTICS



R4 (11-December 2015)

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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

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

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