

CMLD2004 CMLD2004A
 CMLD2004C CMLD2004S
 CMLD2004DO

**SURFACE MOUNT SILICON
 DUAL, HIGH VOLTAGE
 SWITCHING DIODES**



SOT-563 CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMLD2004 series contains two (2) silicon high voltage switching diodes, manufactured by the epitaxial planar process, epoxy molded in an SOT-563 surface mount package, designed for applications requiring high voltage capability.

The following configurations are available:

| | | |
|------------|-------------------------|--------------------------------|
| CMLD2004 | DUAL, ISOLATED | MARKING CODE: 04D |
| CMLD2004A | DUAL, COMMON ANODE | MARKING CODE: 04A or 4A |
| CMLD2004C | DUAL, COMMON CATHODE | MARKING CODE: 04C |
| CMLD2004S | DUAL, IN SERIES | MARKING CODE: 04S |
| CMLD2004DO | DUAL, ISOLATED OPPOSING | MARKING CODE: 04O |

| MAXIMUM RATINGS: (T _A =25°C) | SYMBOL | | UNITS |
|--|-----------------------------------|-------------|--------------|
| Continuous Reverse Voltage | V _R | 240 | V |
| Peak Repetitive Reverse Voltage | V _{RRM} | 300 | V |
| Peak Repetitive Reverse Current | I _O | 200 | mA |
| Continuous Forward Current | I _F | 225 | mA |
| Peak Repetitive Forward Current | I _{FRM} | 625 | mA |
| Peak Forward Surge Current, tp=1.0µs | I _{FSM} | 4.0 | A |
| Peak Forward Surge Current, tp=1.0s | I _{FSM} | 1.0 | A |
| Power Dissipation | P _D | 250 | mW |
| Operating and Storage Junction Temperature | T _J , T _{stg} | -65 to +150 | °C |
| Thermal Resistance | θ _{JA} | 500 | °C/W |

ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C unless otherwise noted)

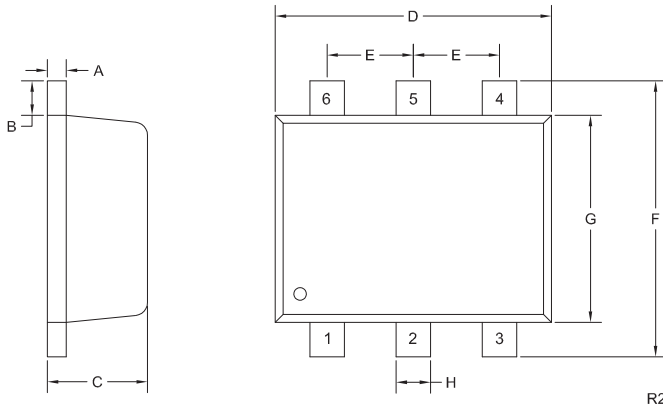
| SYMBOL | TEST CONDITIONS | MIN | MAX | UNITS |
|-----------------|--|------------|------------|--------------|
| I _R | V _R =240V | | 100 | nA |
| I _R | V _R =240V, T _A =150°C | | 100 | µA |
| BV _R | I _R =100µA | 300 | | V |
| V _F | I _F =100mA | | 1.0 | V |
| C _J | V _R =0, f=1.0MHz | | 5.0 | pF |
| t _{rr} | I _F =I _R =30mA, I _{rr} =3.0mA, R _L =100Ω | | 50 | ns |

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SOT-563 CASE - MECHANICAL OUTLINE



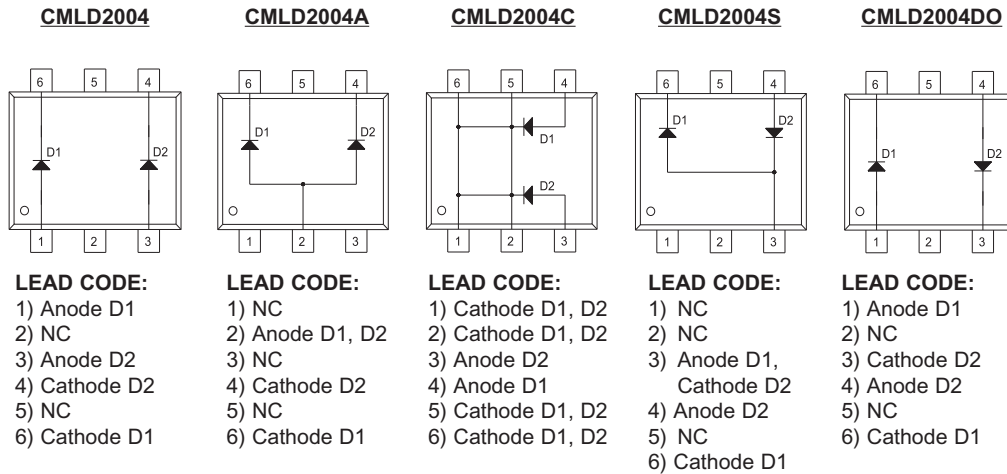
| SYMBOL | DIMENSIONS | | | |
|--------|------------|-------|-------------|------|
| | INCHES | | MILLIMETERS | |
| | MIN | MAX | MIN | MAX |
| A | 0.0027 | 0.007 | 0.07 | 0.18 |
| B | 0.008 | | 0.20 | |
| C | 0.017 | 0.024 | 0.45 | 0.60 |
| D | 0.059 | 0.067 | 1.50 | 1.70 |
| E | 0.020 | | 0.50 | |
| F | 0.059 | 0.067 | 1.50 | 1.70 |
| G | 0.043 | 0.051 | 1.10 | 1.30 |
| H | 0.006 | 0.012 | 0.15 | 0.30 |

SOT-563 (REV: R2)

MARKING CODES:

CMLD2004: 04D
CMLD2004A: 04A or 4A
CMLD2004C: 04C
CMLD2004S: 04S
CMLD2004DO: 04O

PIN CONFIGURATIONS



R7 (15-June 2015)

CMLD2004 CMLD2004A
CMLD2004C CMLD2004S
CMLD2004DO

**SURFACE MOUNT SILICON
DUAL, HIGH VOLTAGE
SWITCHING DIODES**



SERVICES

- Bonded Inventory
- Custom Electrical Screening
- Custom Electrical Characteristic Curves
- SPICE Models
- Custom Packaging
- Package Base Options
- Custom Device Development/ Multi Discrete Modules (MDM™)
- Bare Die Available for Hybrid Applications

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R7 (15-June 2015)

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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