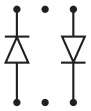
**CMKD6263DO**

**SURFACE MOUNT**
**DUAL OPPOSING**
**HIGH VOLTAGE SILICON**
**SCHOTTKY DIODES**

ULTRAmini™

**SOT-363 CASE**

Central Semiconductor Corp.

www.centralsemi.com

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMKD6263DO contains two (2) galvanically isolated, high voltage, low $V_F$ Silicon Schottky diodes with an opposing Anode/ Cathode configuration, epoxy molded in a SOT-363 surface mount package. This ULTRAmini™ device has been designed for fast switching applications requiring a low forward voltage drop.

**MARKING CODE: 63D**

**FEATURES:**

- Dual Opposing (DO) Schottky Diodes
- High Voltage (70V)
- Low Forward Voltage
- Galvanically Isolated

| **MAXIMUM RATINGS:** ($T_A$=25°C) | **SYMBOL** | | **UNITS** |
|---|---|---|---|
| Peak Repetitive Reverse Voltage | $V_{RRM}$ | 70 | V |
| Continuous Forward Current | $I_F$ | 15 | mA |
| Peak Forward Surge Current, tp=1.0s | $I_{FSM}$ | 50 | mA |
| Power Dissipation | $P_D$ | 250 | mW |
| Operating and Storage Junction Temperature | $T_J$, $T_{stg}$ | -65 to +150 | °C |
| Thermal Resistance | $\Theta_{JA}$ | 500 | °C/W |

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

| **SYMBOL** | **TEST CONDITIONS** | **MIN** | **TYP** | **MAX** | **UNITS** |
|---|---|---|---|---|---|
| $I_R$ | $V_R$=50V | | 98 | 200 | nA |
| $BV_R$ | $I_R$=10μA | 70 | | | V |
| $V_F$ | $I_F$=1.0mA | | 395 | 410 | mV |
| $C_T$ | $V_R$=0, f=1.0MHz | | | 2.0 | pF |
| $t_{rr}$ | $I_R$=$I_F$=10mA, $I_{rr}$=1.0mA, $R_L$=100Ω | | | 5.0 | ns |

R3 (13-January 2010)

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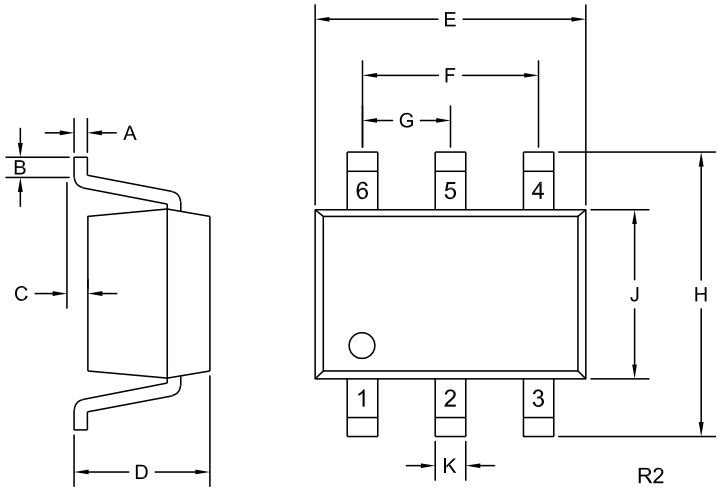
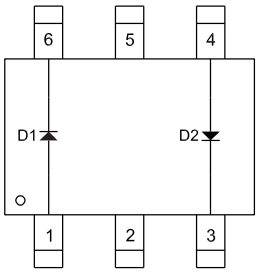
## SOT-363 CASE - MECHANICAL OUTLINE




**PIN CONFIGURATION**




**LEAD CODE:**
1) Anode D1
2) NC
3) Cathode D2
4) Anode D2
5) NC
6) Cathode D1

**MARKING CODE: 63D**

| DIMENSIONS | | | | |
|---|---|---|---|---|
| | INCHES | | MILLIMETERS | |
| SYMBOL | MIN | MAX | MIN | MAX |
| A | 0.004 | 0.010 | 0.10 | 0.25 |
| B | 0.005 | - | 0.12 | - |
| C | 0.000 | 0.004 | 0.00 | 0.10 |
| D | 0.031 | 0.043 | 0.80 | 1.10 |
| E | 0.071 | 0.087 | 1.80 | 2.20 |
| F | 0.051 | | 1.30 | |
| G | 0.026 | | 0.65 | |
| H | 0.075 | 0.091 | 1.90 | 2.30 |
| J | 0.043 | 0.055 | 1.10 | 1.40 |
| K | 0.006 | 0.012 | 0.15 | 0.30 |

SOT-363 (REV: R2)

R3 (13-January 2010)