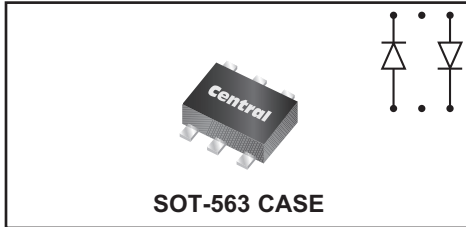


CMLSH05-4DO**SURFACE MOUNT SILICON
DUAL, ISOLATED OPPOSING
LOW V_F SCHOTTKY DIODE**www.centrasemi.com**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMLSH05-4DO consists of two (2) individual electrically isolated 40 volt Schottky diodes with opposing polarity and packaged in a space saving SOT-563 surface mount case. This device has been designed for applications requiring a low forward voltage drop.

MARKING CODE: CO4**MAXIMUM RATINGS:** ($T_A=25^\circ\text{C}$)

| | SYMBOL | | UNITS |
|--|----------------|-------------|--------------------|
| Peak Repetitive Reverse Voltage | V_{RRM} | 40 | V |
| Continuous Forward Current | I_F | 500 | mA |
| Peak Repetitive Forward Current, $t_p \leq 1.0\text{ms}$ | I_{FRM} | 3.5 | A |
| Peak Forward Surge Current, $t_p = 8.0\text{ms}$ | I_{FSM} | 10 | A |
| Power Dissipation | P_D | 250 | mW |
| Operating and Storage Junction Temperature | T_J, T_{stg} | -65 to +150 | $^\circ\text{C}$ |
| Thermal Resistance | Θ_{JA} | 500 | $^\circ\text{C/W}$ |

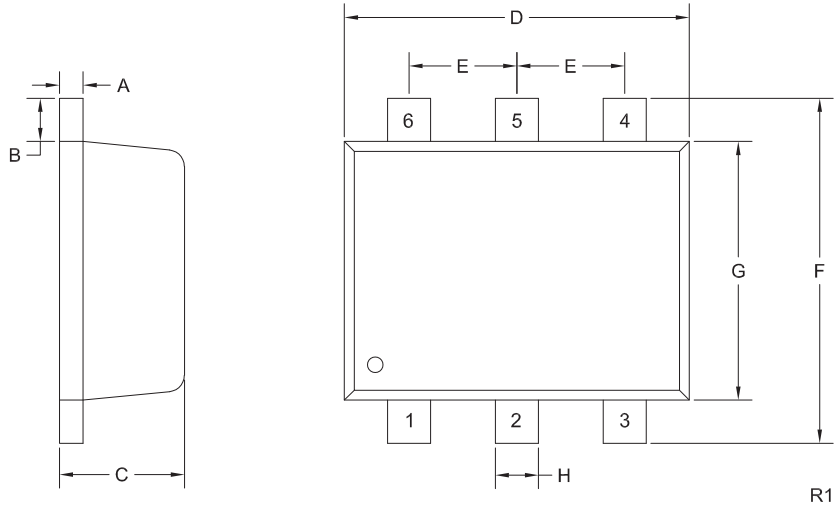
ELECTRICAL CHARACTERISTICS PER DIODE: ($T_A=25^\circ\text{C}$ unless otherwise noted)

| SYMBOL | TEST CONDITIONS | MIN | MAX | UNITS |
|--------|------------------------------------|-----|------|---------------|
| I_R | $V_R=10\text{V}$ | | 20 | μA |
| I_R | $V_R=30\text{V}$ | | 100 | μA |
| BV_R | $I_R=500\mu\text{A}$ | 40 | | V |
| V_F | $I_F=100\mu\text{A}$ | | 0.13 | V |
| V_F | $I_F=1.0\text{mA}$ | | 0.21 | V |
| V_F | $I_F=10\text{mA}$ | | 0.27 | V |
| V_F | $I_F=100\text{mA}$ | | 0.35 | V |
| V_F | $I_F=500\text{mA}$ | | 0.47 | V |
| C_J | $V_R=1.0\text{V}, f=1.0\text{MHz}$ | | 50 | pF |

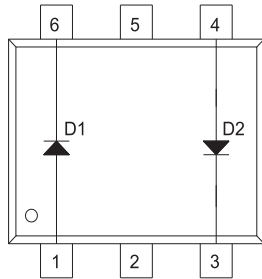
CMLSH05-4DO
SURFACE MOUNT SILICON
DUAL, ISOLATED OPPOSING
LOW V_F SCHOTTKY DIODE



SOT-563 CASE - MECHANICAL OUTLINE



PIN CONFIGURATION



| SYMBOL | 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 | 0.061 | 0.067 | 1.55 | 1.70 |
| G | 0.045 | 0.049 | 1.15 | 1.25 |
| H | 0.006 | 0.012 | 0.15 | 0.30 |

SOT-563 (REV: R1)

LEAD CODE:

- 1) Anode D1
- 2) NC
- 3) Cathode D2
- 4) Anode D2
- 5) NC
- 6) Cathode D1

MARKING CODE: CO4

R3 (14-February 2014)