

**CMLSH-4DO****SURFACE MOUNT SILICON  
DUAL, ISOLATED OPPOSING  
SCHOTTKY DIODE****SOT-563 CASE**[www.centralemi.com](http://www.centralemi.com)**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMLSH-4DO are two individual electrically isolated 40 volt Schottky Diodes of opposing polarity, in a space saving SOT-563 surface mount package. This device has been designed for applications requiring fast switching speeds and a low forward voltage drop.

**MARKING CODE: L40****MAXIMUM RATINGS:** ( $T_A=25^{\circ}\text{C}$ )

|                                               |
|-----------------------------------------------|
| Peak Repetitive Reverse Voltage               |
| Continuous Forward Current                    |
| Peak Repetitive Forward Current               |
| Peak Forward Surge Current, $t_p=10\text{ms}$ |
| Power Dissipation                             |
| Operating and Storage Junction Temperature    |
| Thermal Resistance                            |

**SYMBOL**

|                |             |
|----------------|-------------|
| $V_{RRM}$      | 40          |
| $I_F$          | 200         |
| $I_{FRM}$      | 350         |
| $I_{FSM}$      | 750         |
| $P_D$          | 250         |
| $T_J, T_{stg}$ | -65 to +150 |
| $\Theta_{JA}$  | 500         |

**UNITS**

|                      |
|----------------------|
| V                    |
| mA                   |
| mA                   |
| mA                   |
| mW                   |
| $^{\circ}\text{C}$   |
| $^{\circ}\text{C/W}$ |

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

| SYMBOL   | TEST CONDITIONS                                           | MIN | TYP  | MAX  | UNITS         |
|----------|-----------------------------------------------------------|-----|------|------|---------------|
| $I_R$    | $V_R=25\text{V}$                                          |     | 90   | 500  | nA            |
| $I_R$    | $V_R=25\text{V}, T_A=100^{\circ}\text{C}$                 |     | 25   | 100  | $\mu\text{A}$ |
| $BV_R$   | $I_R=100\mu\text{A}$                                      | 40  | 50   |      | V             |
| $V_F$    | $I_F=2.0\text{mA}$                                        |     | 0.29 | 0.33 | V             |
| $V_F$    | $I_F=15\text{mA}$                                         |     | 0.37 | 0.42 | V             |
| $V_F$    | $I_F=100\text{mA}$                                        |     | 0.61 | 0.80 | V             |
| $V_F$    | $I_F=200\text{mA}$                                        |     | 0.65 | 1.0  | V             |
| $C_J$    | $V_R=1.0\text{V}, f=1.0\text{MHz}$                        |     | 7.0  |      | pF            |
| $t_{rr}$ | $I_F=I_R=10\text{mA}, I_{rr}=1.0\text{mA}, R_L=100\Omega$ |     |      | 5.0  | ns            |

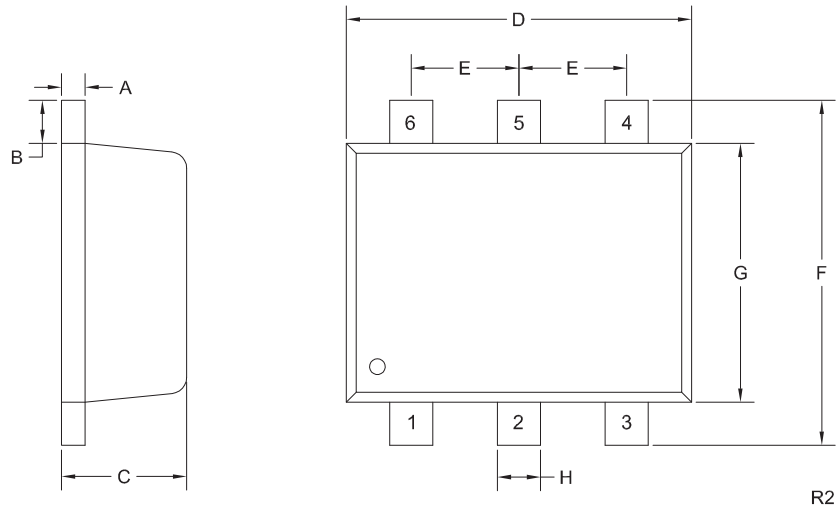
R5 (1-July 2015)

CMLSH-4DO

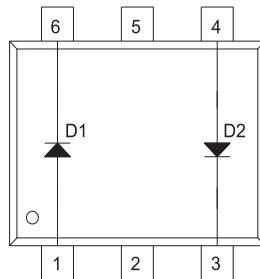
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SCHOTTKY DIODE



SOT-563 CASE - MECHANICAL OUTLINE



PIN CONFIGURATION



DIMENSIONS

| 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      | 0.059  | 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)

LEAD CODE:

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

MARKING CODE: L40

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**CMLSH-4DO**

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### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

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