

CMSH2-20M CMSH2-60M  
CMSH2-40M CMSH2-100M

SURFACE MOUNT SILICON  
SCHOTTKY RECTIFIERS  
2.0 AMP, 20 THRU 100 VOLT



SMA CASE



www.centrasemi.com

#### DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSH2-20M series 2.0 Amp surface mount silicon Schottky rectifier is a well constructed, highly reliable component designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications.

**MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE**

#### FEATURES:

- High current capability
- Flammability classification UL94V-0
- High reliability

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

|                                                    | SYMBOL         | CMSH2<br>-20M | CMSH2<br>-40M | CMSH2<br>-60M | CMSH2<br>-100M | UNITS              |
|----------------------------------------------------|----------------|---------------|---------------|---------------|----------------|--------------------|
| Peak Repetitive Reverse Voltage                    | $V_{RRM}$      | 20            | 40            | 60            | 100            | V                  |
| DC Blocking Voltage                                | $V_R$          | 20            | 40            | 60            | 100            | V                  |
| RMS Reverse Voltage                                | $V_{R(RMS)}$   | 14            | 28            | 42            | 71             | V                  |
| Average Forward Current ( $T_L=75^\circ\text{C}$ ) | $I_O$          |               |               | 2.0           |                | A                  |
| Peak Forward Surge Current, $t_p=8.3\text{ms}$     | $I_{FSM}$      |               |               | 50            |                | A                  |
| Operating and Storage Junction Temperature         | $T_J, T_{stg}$ |               | -65 to +150   |               |                | $^\circ\text{C}$   |
| Thermal Resistance                                 | $\Theta_{JL}$  |               | 30            |               |                | $^\circ\text{C/W}$ |

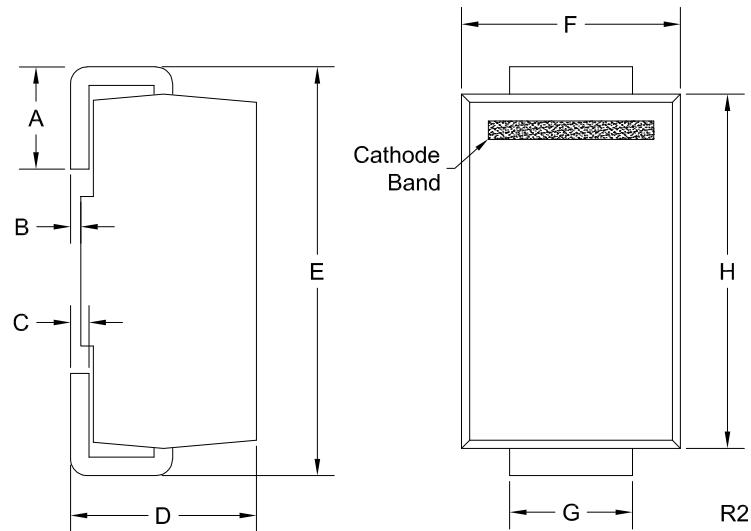
**ELECTRICAL CHARACTERISTICS:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

| SYMBOL | TEST CONDITIONS                                       | TYP | MAX  | UNITS |
|--------|-------------------------------------------------------|-----|------|-------|
| $I_R$  | $V_R=\text{Rated } V_{RRM}$                           |     | 0.50 | mA    |
| $I_R$  | $V_R=\text{Rated } V_{RRM}, T_A=100^\circ\text{C}$    |     | 20   | mA    |
| $V_F$  | $I_F=2.0\text{A}$ (CMSH2-20M, -40M)                   |     | 0.55 | V     |
| $V_F$  | $I_F=2.0\text{A}$ (CMSH2-60M)                         |     | 0.70 | V     |
| $V_F$  | $I_F=2.0\text{A}$ (CMSH2-100M)                        |     | 0.85 | V     |
| $C_J$  | $V_R=4.0\text{V}, f=1.0\text{MHz}$ (CMSH2-20M, -40M)  | 150 |      | pF    |
| $C_J$  | $V_R=4.0\text{V}, f=1.0\text{MHz}$ (CMSH2-60M, -100M) | 120 |      | pF    |

|                                                                           |            |
|---------------------------------------------------------------------------|------------|
| CMSH2-20M                                                                 | CMSH2-60M  |
| CMSH2-40M                                                                 | CMSH2-100M |
| SURFACE MOUNT SILICON<br>SCHOTTKY RECTIFIERS<br>2.0 AMP, 20 THRU 100 VOLT |            |



SMA CASE - MECHANICAL OUTLINE



| DEVICE     | MARKING CODE |
|------------|--------------|
| CMSH2-20M  | CS220M       |
| CMSH2-40M  | CS240M       |
| CMSH2-60M  | CS260M       |
| CMSH2-100M | CS2100M      |

| DIMENSIONS |        |       |             |      |
|------------|--------|-------|-------------|------|
| SYMBOL     | INCHES |       | MILLIMETERS |      |
|            | MIN    | MAX   | MIN         | MAX  |
| A          | 0.030  | 0.060 | 0.76        | 1.52 |
| B          | 0.004  | 0.008 | 0.10        | 0.20 |
| C          | 0.006  | 0.012 | 0.15        | 0.30 |
| D          | 0.078  | 0.103 | 1.98        | 2.62 |
| E          | 0.188  | 0.220 | 4.78        | 5.59 |
| F          | 0.090  | 0.115 | 2.29        | 2.92 |
| G          | 0.050  | 0.070 | 1.27        | 1.78 |
| H          | 0.157  | 0.181 | 3.99        | 4.60 |

SMA (REV: R2)

CMSH2-20M CMSH2-60M  
CMSH2-40M CMSH2-100M

**SURFACE MOUNT SILICON  
SCHOTTKY RECTIFIERS  
2.0 AMP, 20 THRU 100 VOLT**



#### **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

---

**LIMITATIONS AND DAMAGES DISCLAIMER:** In no event shall Central be liable for any collateral, indirect, punitive, incidental, consequential, or exemplary damages in connection with or arising out of a purchase order or contract or the use of products provided hereunder, regardless of whether Central has been advised of the possibility of such damages. Excluded damages shall include, but not be restricted to: cost of removal or reinstallation, rework, ancillary costs to the procurement of substitute products, loss of profits, loss of savings, loss of use, loss of data, or business interruption. No claim, suit, or action shall be brought against Central more than two (2) years after the related cause of action has occurred.

In no event shall Central's aggregate liability from any warranty, indemnity, or other obligation arising out of or in connection with a purchase order or contract, or any use of any Central product provided hereunder, exceed the total amount paid to Central for the specific products sold under a purchase order or contract with respect to which losses or damages are claimed. The existence of more than one (1) claim against the specific products sold to Buyer under a purchase order or contract shall not enlarge or extend this limit.

Buyer understands and agrees that the foregoing liability limitations are essential elements of a purchase order or contract and that in the absence of such limitations, the material and economic terms of the purchase order or contract would be substantially different.

R3 (6-May 2015)

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

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.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

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

### 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

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9