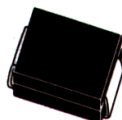




CMSH2-20  
CMSH2-40  
CMSH2-60

**SCHOTTKY BARRIER RECTIFIER**  
**2.0 AMP, 20 THRU 60 VOLTS**



**SMB CASE**

**Central<sup>TM</sup>**  
**Semiconductor Corp.**

**FEATURES:**

- LOW COST
- SUPERIOR LOT TO LOT CONSISTENCY
- HIGH RELIABILITY
- "C" BEND CONSTRUCTION PROVIDES STRAIN RELIEF WHEN MOUNTED ON PC BOARD
- SPECIAL SELECTIONS AVAILABLE

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR 2.0 Amp Surface Mount Silicon Schottky Rectifier is a high quality, well constructed, highly reliable component designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications. To order devices on 12mm Tape and Reel (3000/13" Reel), add TR13 suffix to part number.

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

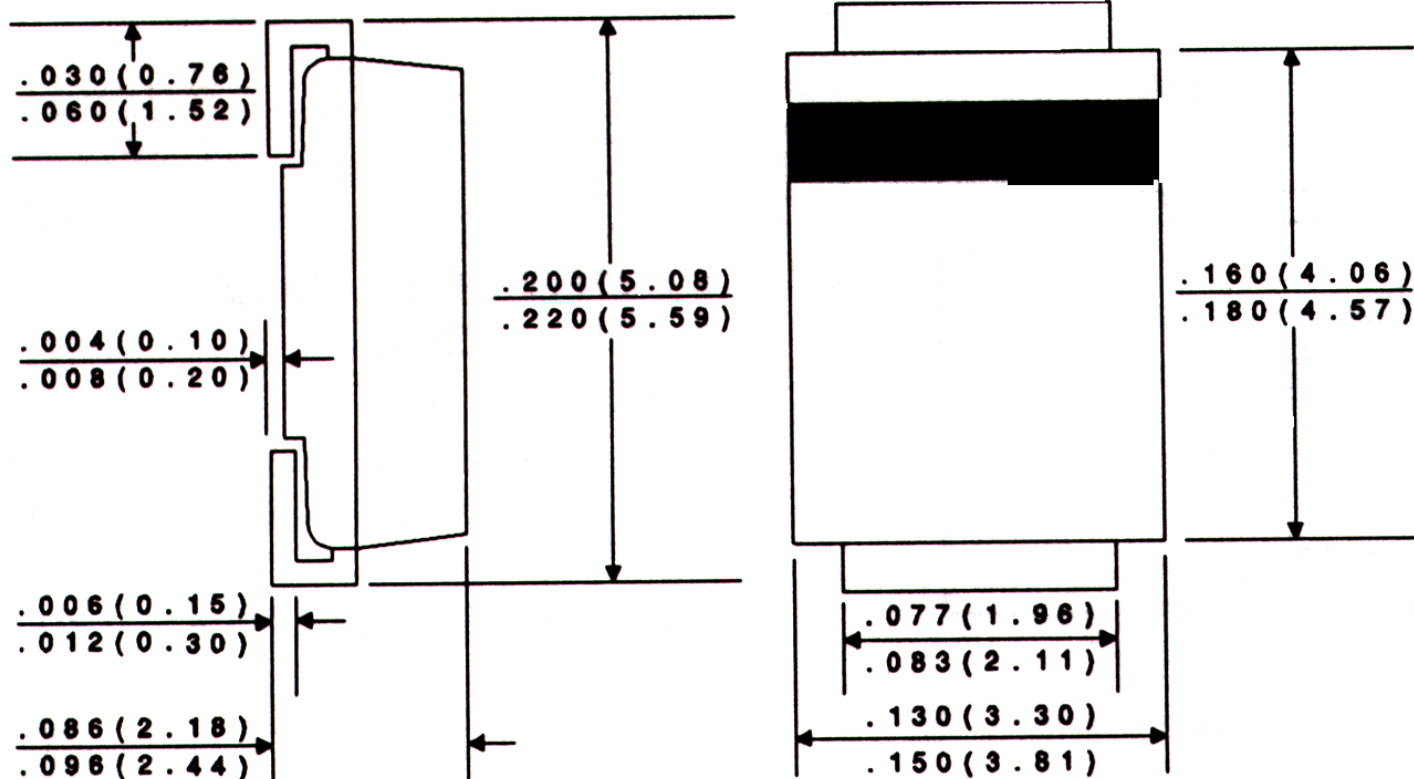
|                                                      |                | CMSH2 | CMSH2       | CMSH2 |                      |
|------------------------------------------------------|----------------|-------|-------------|-------|----------------------|
|                                                      | SYMBOL         | -20   | -40         | -60   | UNITS                |
| Peak Repetitive Reverse Voltage                      | $V_{RRM}$      | 20    | 40          | 60    | V                    |
| DC Blocking Voltage                                  | $V_R$          | 20    | 40          | 60    | V                    |
| RMS Reverse Voltage                                  | $V_{R(RMS)}$   | 14    | 28          | 42    | V                    |
| Average Forward Current ( $T_A=55^{\circ}\text{C}$ ) | $I_O$          |       | 2.0         |       | A                    |
| Peak Forward Surge Current (8.3ms)                   | $I_{FSM}$      |       | 30          |       | A                    |
| Operating and Storage                                |                |       |             |       |                      |
| Junction Temperature                                 | $T_J, T_{stg}$ |       | -65 to +150 |       | $^{\circ}\text{C}$   |
| Thermal Resistance                                   | $\Theta_{JL}$  |       | 20          |       | $^{\circ}\text{C/W}$ |

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

| SYMBOL | TEST CONDITIONS                                              | MIN | 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    |
| $V_F$  | $I_F=2.0\text{A}$ (CMSH2-20 AND CMSH2-40)                    |     |     | 0.50 | V     |
| $V_F$  | $I_F=2.0\text{A}$ (CMSH2-60)                                 |     |     | 0.70 | V     |
| $C_J$  | $V_R=4.0\text{V}, f=1.0\text{MHz}$ , (CMSH2-20 AND CMSH2-40) |     | 150 |      | pF    |
| $C_J$  | $V_R=4.0\text{V}, f=1.0\text{MHz}$ , (CMSH2-60)              |     | 120 |      | pF    |

All dimensions in inches (mm).

## TOP VIEW



## Marking Codes:

| DEVICE   | MARKING CODE |
|----------|--------------|
| CMSH2-20 | CS220        |
| CMSH2-40 | CS240        |
| CMSH2-60 | CS260        |