**CMSH1-20**
**CMSH1-40**
**CMSH1-60**
**NEW CMSH1-100**

**SCHOTTKY BARRIER RECTIFIER**
**1.0 AMP, 20 THRU 100 VOLTS**

**SMB CASE**

# Central™
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 1.0 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°C unless otherwise noted)

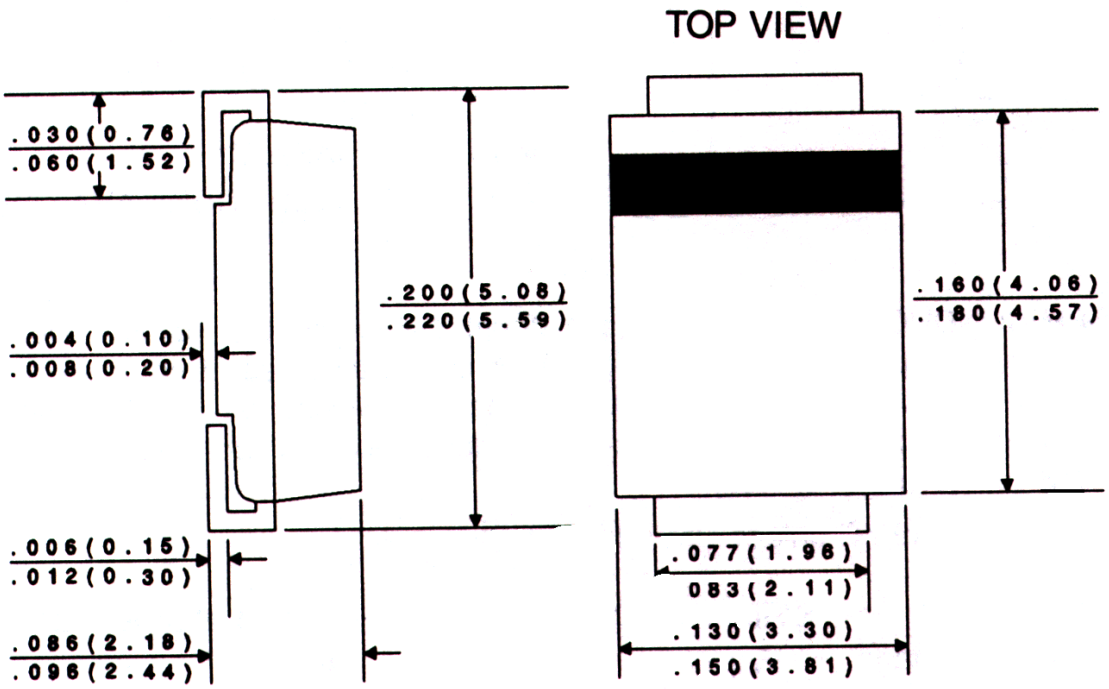
| | SYMBOL | CMSH1 -20 | CMSH1 -40 | CMSH1 -60 | CMSH1 -100 | UNITS |
|---|---|---|---|---|---|---|
| Peak Repetitive Reverse Voltage | $V_{RRM}$ | 20 | 40 | 60 | 100 | V |
| DC Blocking Voltage | $V_R$ | 20 | 40 | 60 | 100 | V |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 14 | 28 | 42 | 70 | V |
| Average Forward Current($T_A$=75°C) | $I_O$ | | 1.0 | | | A |
| Peak Forward Surge Current (8.3ms) | $I_{FSM}$ | | 30 | | | A |
| Operating and Storage Junction Temperature | $T_J$,$T_{stg}$ | | -65 to +150 | | | °C |
| Thermal Resistance | $\Theta_{JL}$ | | 20 | | | °C/W |

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

| SYMBOL | TEST CONDITIONS | MIN | TYP | MAX | UNITS |
|---|---|---|---|---|---|
| $V_F$ | $I_F$=1.0A (CMSH1-20 AND CMSH1-40) | | | 0.55 | V |
| $V_F$ | $I_F$=1.0A (CMSH1-60) | | | 0.70 | V |
| $V_F$ | $I_F$=1.0A (CMSH1-100) | | | 0.85 | V |
| $I_R$ | $V_R$=Rated $V_{RRM}$ | | | 0.50 | mA |
| $I_R$ | $V_R$=Rated $V_{RRM}$, $T_A$=125°C | | | 20 | mA |

| SYMBOL | TEST CONDITIONS | MIN | TYP | MAX | UNITS |
|---|---|---|---|---|---|
| $C_J$ | $V_R$=4.0V, f=1.0MHz, (CMSH1-20 AND CMSH1-40) | | 110 | | pF |
| $C_J$ | $V_R$=4.0V, f=1.0MHz, (CMSH1-60) | | 80 | | pF |
| $C_J$ | $V_R$=4.0V, f=1.0MHz, (CMSH1-100) | | 50 | | pF |

All dimensions in inches (mm).




**Marking Codes:**

| DEVICE | MARKING CODE |
|---|---|
| CMSH1-20 | CS20 |
| CMSH1-40 | CS40 |
| CMSH1-60 | CS60 |
| CMSH1-100 | CS100 |