

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

SCHOTTKY BARRIER RECTIFIER
1.0 AMP, 20 THRU 100 VOLTS



SMB CASE

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

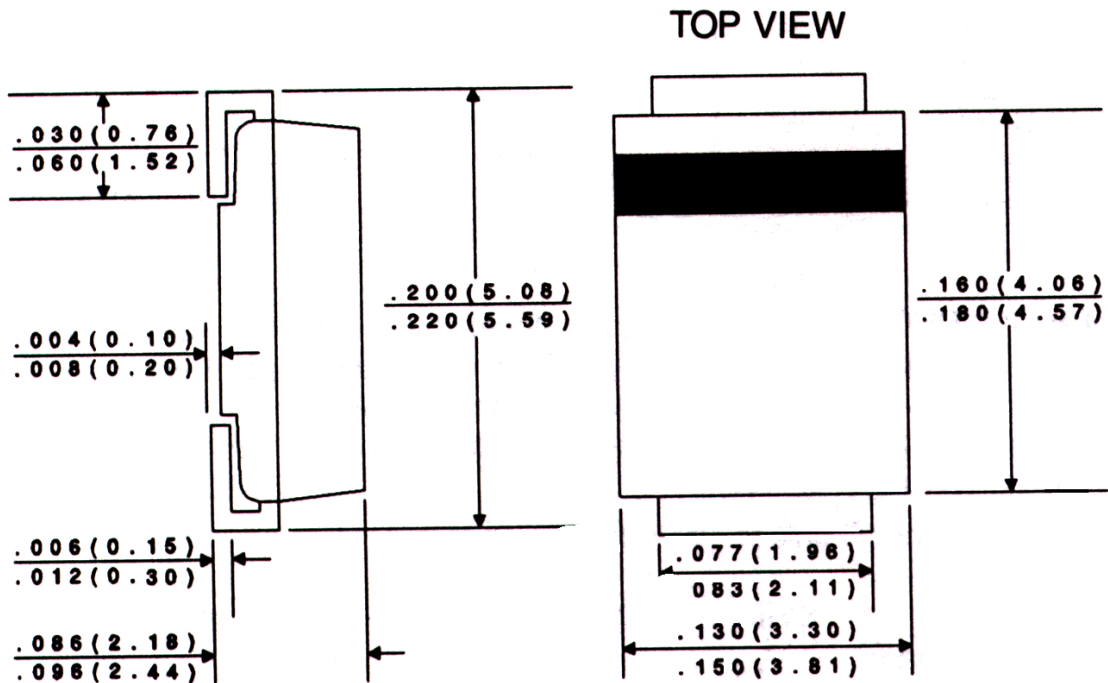
| | | CMSH1 -20 | CMSH1 -40 | CMSH1 -60 | CMSH1 -100 | UNITS |
|--|----------------|--------------|--------------|--------------|---------------|--------------------|
| Peak Repetitive Reverse Voltage | V_{RRM} | 20 | 40 | 60 | 100 | V |
| DC Blocking Voltage | V_R | 20 | 40 | 60 | 100 | V |
| RMS Reverse Voltage | $V_{R(RMS)}$ | 14 | 28 | 42 | 70 | V |
| Average Forward Current ($T_A=75^\circ\text{C}$) | 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 | | | $^\circ\text{C}$ |
| Thermal Resistance | θ_{JL} | | 20 | | | $^\circ\text{C/W}$ |

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

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