



CM SH5-20  
CM SH5-40  
CM SH5-60  
CM SH5-100

HIGH DENSITY  
SCHOTTKY BARRIER RECTIFIER  
5.0 AMP, 20 THRU 100 VOLTS

FEATURES:

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

HIGH DENSITY  
S C H O T T K Y



SMC CASE

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 5.0 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 16mm Tape and Reel (3000/13" Reel), add TR13 suffix to part number.

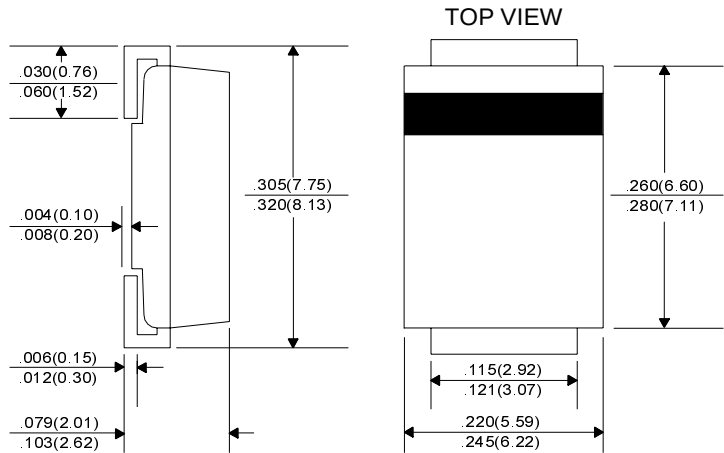
MAXIMUM RATINGS:
(T<sub>A</sub>=25°C unless otherwise noted)

|                                                | SYMBOL                            | CM SH5<br>-20 | CM SH5<br>-40 | CM SH5<br>-60 | CM SH5<br>-100 | UNITS |
|------------------------------------------------|-----------------------------------|---------------|---------------|---------------|----------------|-------|
| Peak Repetitive Reverse Voltage                | V <sub>RRM</sub>                  | 20            | 40            | 60            | 100            | V     |
| DC Blocking Voltage                            | V <sub>R</sub>                    | 20            | 40            | 60            | 100            | V     |
| RMS Reverse Voltage                            | V <sub>R</sub> (RMS)              | 14            | 28            | 42            | 71             | V     |
| Average Forward Current (T <sub>A</sub> =75°C) | I <sub>O</sub>                    |               |               | 5.0           |                | A     |
| Peak Forward Surge Current (8.3ms)             | I <sub>FSM</sub>                  |               |               | 125           |                | A     |
| Operating and Storage                          |                                   |               |               |               |                |       |
| Junction Temperature                           | T <sub>J</sub> , T <sub>stg</sub> |               | -65 to +150   |               |                | °C    |
| Thermal Resistance                             | Θ <sub>JL</sub>                   |               | 10            |               |                | °C/W  |

ELECTRICAL CHARACTERISTICS:
(T<sub>A</sub>=25°C unless otherwise noted)

| SYMBOL         | TEST CONDITIONS                                                | MIN | TYP | MAX  | UNITS |
|----------------|----------------------------------------------------------------|-----|-----|------|-------|
| I <sub>R</sub> | V <sub>R</sub> =Rated V <sub>RRM</sub>                         |     |     | 3.0  | mA    |
| I <sub>R</sub> | V <sub>R</sub> =Rated V <sub>RRM</sub> , T <sub>A</sub> =100°C |     |     | 20   | mA    |
| V <sub>F</sub> | I <sub>F</sub> =5.0A (CM SH5-20 AND CM SH5-40)                 |     |     | 0.55 | V     |
| V <sub>F</sub> | I <sub>F</sub> =5.0A (CM SH5-60)                               |     |     | 0.75 | V     |
| V <sub>F</sub> | I <sub>F</sub> =5.0A (CM SH5-100)                              |     |     | 0.85 | V     |

All Dimensions in Inches (mm).



**Marking Codes:**

| DEVICE    | MARKING CODE |
|-----------|--------------|
| CMSH5-20  | CS520        |
| CMSH5-40  | CS540        |
| CMSH5-60  | CS560        |
| CMSH5-100 | CS5100       |