

**CMSH3-20M**  
**CMSH3-40M**  
**CMSH3-60M**  
**CMSH3-100M**

**HIGH DENSITY**  
**SCHOTTKY BARRIER RECTIFIER**  
**3.0 AMP, 20 THRU 100 VOLTS**

**FEATURES:**

- HIGH CURRENT CAPABILITY
- FLAMMABILITY CLASSIFICATION UL94V-0
- HIGH DENSITY, SUPER MINI DEVICE
- SUPERIOR LOT TO LOT CONSISTENCY
- LOW COST
- “C” BEND CONSTRUCTION PROVIDES STRAIN RELIEF WHEN MOUNTED ON PC BOARD
- HIGH RELIABILITY

**HIGH DENSITY**  
S C H O T T K Y



**SMB CASE**

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR 3.0 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.

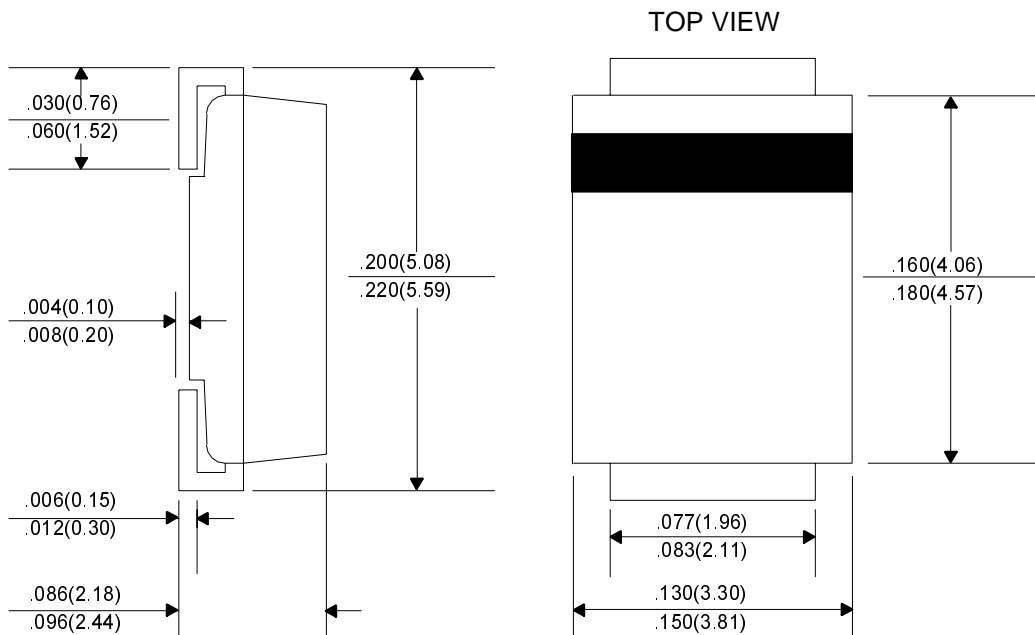
**MAXIMUM RATINGS:** (T<sub>A</sub>=25°C unless otherwise noted)

CMSH3	SYMBOL	CMSH3    CMSH3    CMSH3    CMSH3				UNITS
		-20M	-40M	-60M	-100M	
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>L</sub> =75°C)	I <sub>O</sub>			3.0		A
Peak Forward Surge Current (8.3ms)	I <sub>FSM</sub>			80		A
Operating and Storage						
Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>		-65 to +150			°C
Thermal Resistance	Θ <sub>JL</sub>		20			°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>			500	μA
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> =3.0A (CMSH3-20M AND CMSH3-40M)			0.55	V
V <sub>F</sub>	I <sub>F</sub> =3.0A (CMSH3-60M)			0.75	V
V <sub>F</sub>	I <sub>F</sub> =3.0A (CMSH3-100M)			0.85	V
C <sub>J</sub>	V <sub>R</sub> =4.0V, f=1.0MHz		280		pF

All Dimensions in Inches (mm).



### Marking Codes:

DEVICE	MARKING CODE
CMSH3-20M	CS320M
CMSH3-40M	CS340M
CMSH3-60M	CS360M
CMSH3-100M	CS3100M