



CM SH1-20
CM SH1-40
CM SH1-60
CM SH1-100

SCHOTTKY BARRIER RECTIFIER
1.0 AMP, 20 THRU 100 VOLTS



SMB CASE

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

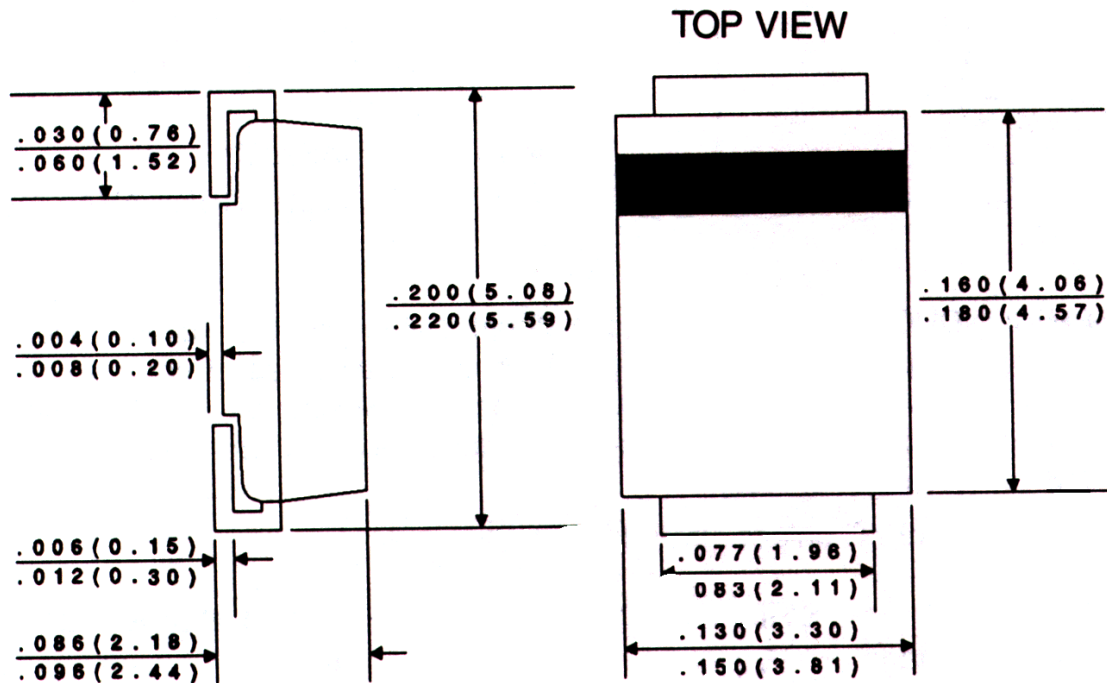
		CM SH1 -20	CM SH1 -40	CM SH1 -60	CM SH1 -100	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	20	40	60	100	V
DC Blocking Voltage	V_R	20	40	60	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	28	42	70	V
Average Forward Current ($T_A=75^{\circ}\text{C}$)	I_O			1.0		A
Peak Forward Surge Current (8.3ms)	I_{FSM}			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	$I_F=1.0\text{A}$ (CM SH1-20 AND CM SH1-40)			0.55	V
V_F	$I_F=1.0\text{A}$ (CM SH1-60)			0.70	V
V_F	$I_F=1.0\text{A}$ (CM SH1-100)			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