CMSH1-20
CMSH1-40
CMSH1-60
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)

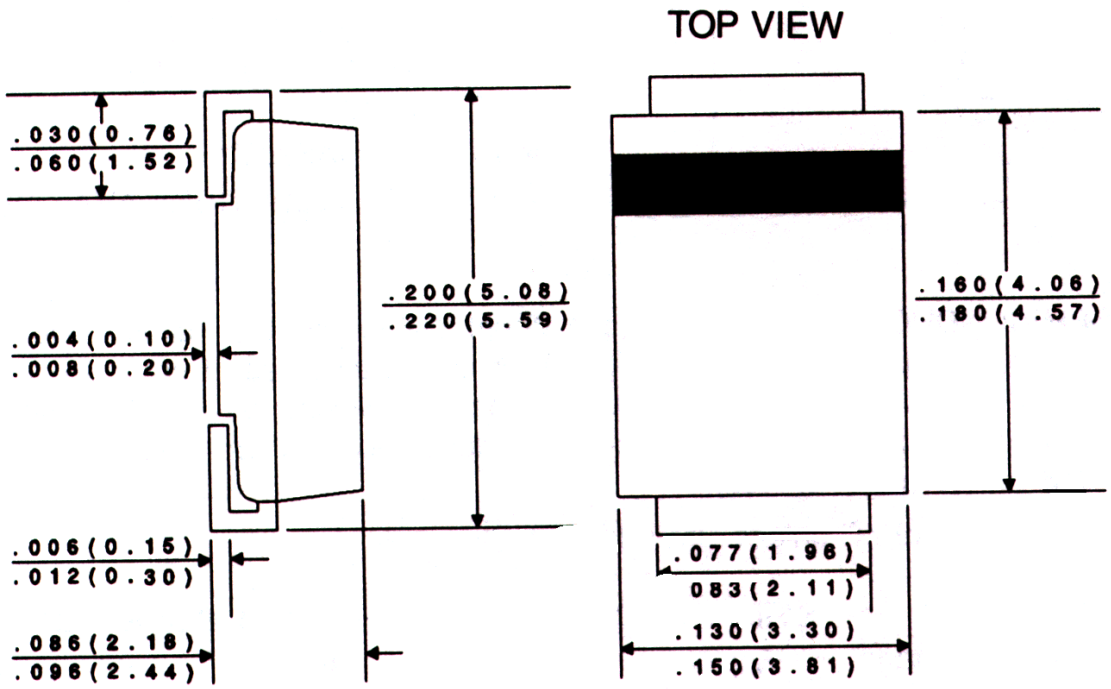
	SYMBOL	CMSH1 -20	CMSH1 -40	CMSH1 -60	CMSH1 -100	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	20	40	60	100	V
DC Blocking Voltage	V_R	20	40	60	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	28	42	70	V
Average Forward Current(T_A=75°C)	I_O		1.0			A
Peak Forward Surge Current (8.3ms)	I_{FSM}		30			A
Operating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

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