CMSH1-20M
CMSH1-40M
CMSH1-60M

SCHOTTKY BARRIER RECTIFIER
1.0 AMP, 20 THRU 60 VOLTS

SMA CASE

FEATURES:

- SUPER MINIATURE CASE
- SUPERIOR LOT TO LOT CONSISTENCY
- LOW COST
- "C" BEND CONSTRUCTION PROVIDES STRAIN RELIEF WHEN MOUNTED ON PC BOARD
- HIGH RELIABILITY
- 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 where small size is required. The SMA case occupies 30% less board space than the SMB case. To order devices on 12mm Tape and Reel (5000/ 13" Reel), add TR13 suffix to part number.

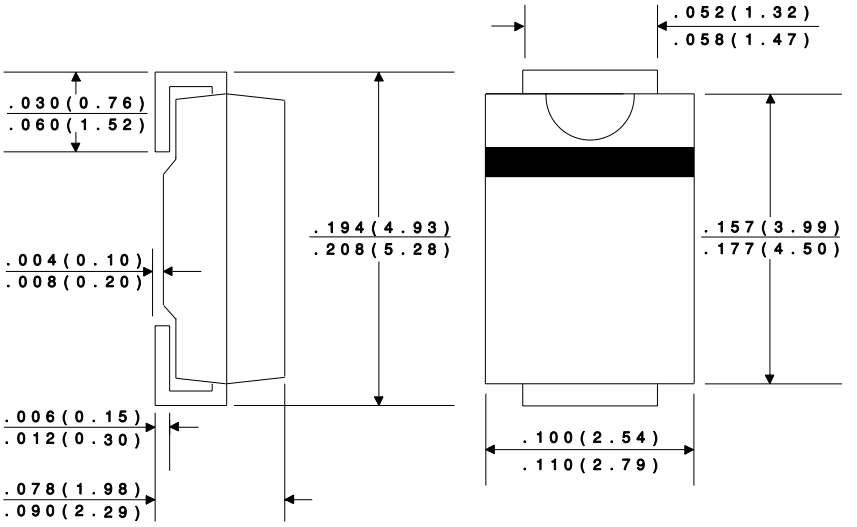
MAXIMUM RATINGS: (T_A=25°C unless otherwise noted)

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

ELECTRICAL CHARACTERISTICS: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
V_F	I_F=1.0A (CMSH1-20M AND CMSH1-40M)			0.50	V
V_F	I_F=1.0A (CMSH1-60M)			0.70	V
I_R	V_R=Rated V_{RRM}			0.50	mA
I_R	V_R=Rated V_{RRM}, T_A=100°C			10	mA
C_J	V_R=4.0V, f=1.0MHz, (CMSH1-20M AND CMSH1-40M)		100		pF
C_J	V_R=4.0V, f=1.0MHz, (CMSH1-60M)		80		pF

All dimensions in inches (mm).



DEVICE	MARKING CODE
CMSH1-20M	CS20M
CMSH1-40M	CS40M
CMSH1-60M	CS60M