CMSH3-20L
CMSH3-40L

LOW FORWARD VOLTAGE
SCHOTTKY BARRIER RECTIFIER
3.0 AMP, 20 AND 40 VOLTS

LOW
V_F

SMC CASE

Central™
Semiconductor Corp.

FEATURES:

• LOW FORWARD VOLTAGE DROP

• FLAMMABILITY CLASSIFICATION UL94V-0

• HIGH CURRENT CAPABILITY

• SUPERIOR LOT TO LOT CONSISTENCY

• LOW COST

• "C" BEND CONSTRUCTION PROVIDES STRAIN
  RELIEF WHEN MOUNTED ON PC BOARD

• HIGH RELIABILITY

DESCRIPTION:

The CENTRAL SEMICONDUCTOR 3.0 Amp Surface Mount Low VF 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 high efficiency is required. To order devices on 12mm Tape and Reel (3000/13" Reel), add TR13 suffix to part number.

MARKING CODES:

CMSH3-20L: CS320L

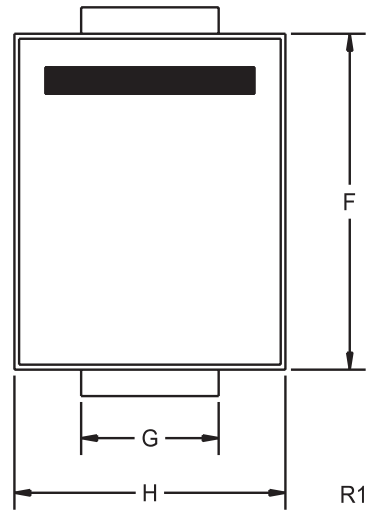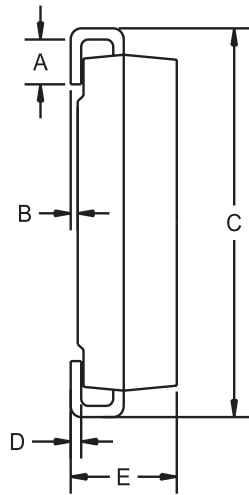**CMSH3-40L: CS340L**

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

	SYMBOL	CMSH3-20L	CMSH3-40L	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	20	40	V
DC Blocking Voltage	V_R	20	40	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	28	V
Average Forward Current(T_L=75°C)	I_O	3.0		A
Peak Forward Surge Current (8.3ms)	I_{FSM}	100		A
Operating and Storage Junction Temperature	T_J,T_{stg}	-65 to +150		°C
Thermal Resistance	Θ_{JL}	10		°C/W

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

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	V_R=Rated V_{RRM}			0.50	mA
I_R	V_R=Rated V_{RRM}, T_A=100°C			20	mA
V_F	I_F=3.0A (CMSH3-20L)			0.38	V
V_F	I_F=3.0A (CMSH3-40L)			0.40	V
C_J	V_R=4.0V, f=1.0MHz		260		pF

Central™
Semiconductor Corp.

LOW FORWARD VOLTAGE
SCHOTTKY BARRIER RECTIFIER
3.0 AMP, 20 AND 40 VOLTS

SMC CASE - MECHANICAL OUTLINE

DEVICE	MARKING CODE
CMSH3-20L	CS320L
CMSH3-40L	CS340L

DIMENSIONS				
	INCHES		MILLIMETERS	
SYMBOL	MIN	MAX	MIN	MAX
A	0.030	0.060	0.76	1.52
B	0.004	0.008	0.10	0.20
C	0.305	0.320	7.75	8.13
D	0.006	0.012	0.15	0.31
E	0.079	0.103	2.00	2.62
F	0.260	0.280	6.60	7.11
G	0.108	0.124	2.75	3.15
H	0.220	0.245	5.59	6.22

SMC (REV: R1)

R1 (26-September 2002)