CMSH3-20
CMSH3-40
CMSH3-60
CMSH3-100

SCHOTTKY BARRIER RECTIFIER
3.0 AMP, 20 THRU 100 VOLTS

SMC 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 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 16mm Tape and Reel (3000/13" Reel), add TR13 suffix to part number.

MARKING CODES: SEE MARKING CODE TABLE ON FOLLOWING PAGE

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

	SYMBOL	CMSH3 -20	CMSH3 -40	CMSH3 -60	CMSH3 -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	71	V
Average Forward Current (T_A=75°C)	I_O			3.0		A
Peak Forward Surge Current (8.3ms)	I_{FSM}			150		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}			500	μA
I_R	V_R=Rated V_{RRM}, T_A=100°C			20	mA
V_F	I_F=3.0A (CMSH3-20 AND CMSH3-40)			0.50	V
V_F	I_F=3.0A (CMSH3-60)			0.70	V
V_F	I_F=3.0A (CMSH3-100)			0.80	V

R2 (14-November 2002)

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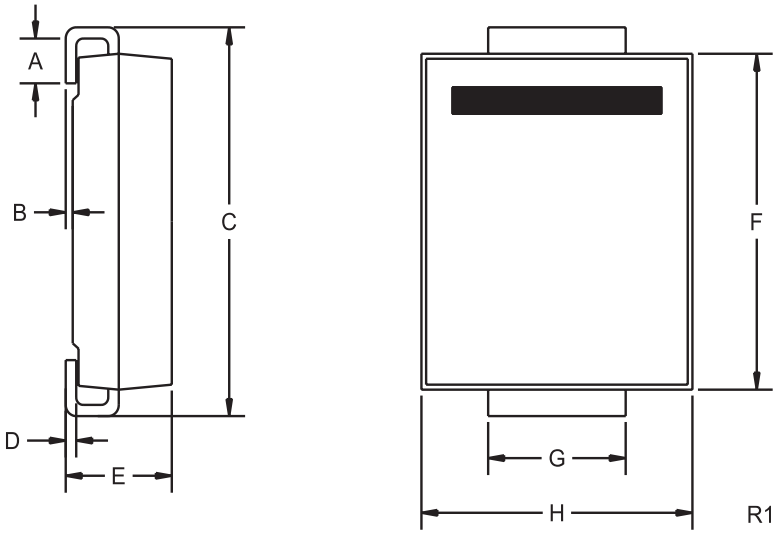
SMC CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE
CMSH3-20	CS320
CMSH3-40	CS340
CMSH3-60	CS360
CMSH3-100	CS3100

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)

R2 (14-November 2002)