CMSH5-20
CMSH5-40
CMSH5-60
CMSH5-100

HIGH DENSITY
SCHOTTKY BARRIER RECTIFIER
5.0 AMP, 20 THRU 100 VOLTS

HIGH DENSITY™
SCHOTTKY

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 5.0 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	CMSH5 -20	CMSH5 -40	CMSH5 -60	CMSH5 -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		5.0			A
Peak Forward Surge Current (8.3ms)	I_{FSM}		125			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}			3.0	mA
I_R	V_R=Rated V_{RRM}, T_A=100°C			20	mA
V_F	I_F=5.0A (CMSH5-20 AND CMSH5-40)			0.55	V
V_F	I_F=5.0A (CMSH5-60)			0.75	V
V_F	I_F=5.0A (CMSH5-100)			0.85	V

R3 (26-September 2002)

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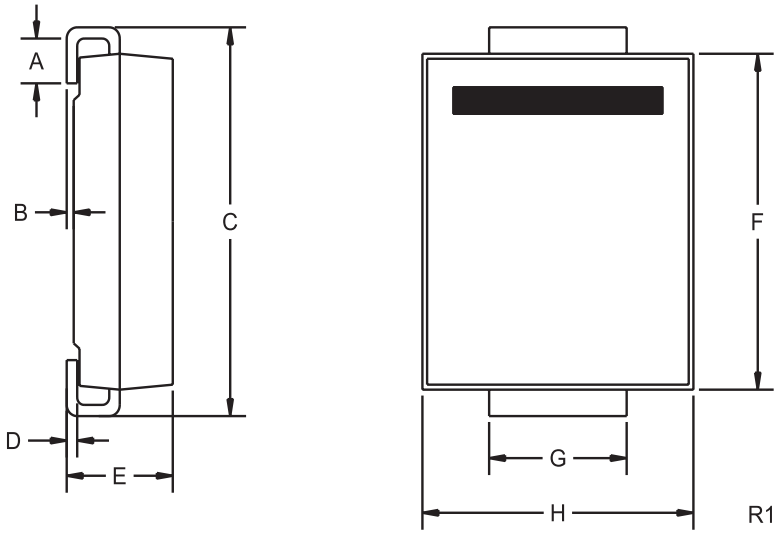
SMC CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE
CMSH5-20	CS520
CMSH5-40	CS540
CMSH5-60	CS560
CMSH5-100	CS5100

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)

R3 (26-September 2002)