

CentralTM Semiconductor Corp.

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

**SURFACE MOUNT
SCHOTTKY BARRIER SILICON
RECTIFIER
3.0 AMP, 20 THRU 100 VOLTS**

**HIGH DENSITYTM
SCHOTTKY**

SUPERminiTM



SMA CASE

FEATURES:

- HIGH CURRENT CAPABILITY
- FLAMMABILITY CLASSIFICATION UL94V-0
- HIGH DENSITY, SUPERminiTM DEVICE
- 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 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 (5000/13" Reel), add TR13 suffix to part number.

MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE

MAXIMUM RATINGS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

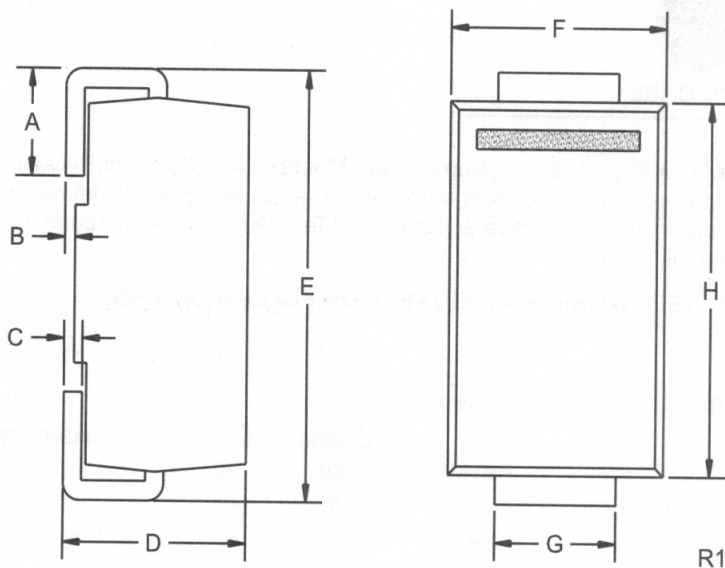
	SYMBOL	CMSH3 -20MA	CMSH3 -40MA	CMSH3 -60MA	CMSH3 -100MA	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	20	40	60	100	V
DC Blocking Voltage	V_R	20	40	60	100	V
RMS Reverse Voltage	$V_{R(RMS)}$	14	28	42	71	V
Average Forward Current ($T_L=75^\circ\text{C}$)	I_O			3.0		A
Peak Forward Surge Current (8.3ms)	I_{FSM}			80		A
Operating and Storage						
Junction Temperature	T_J, T_{stg}			-65 to +150		$^\circ\text{C}$
Thermal Resistance	θ_{JL}			30		$^\circ\text{C/W}$

ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNITS
I_R	$V_R=\text{Rated } V_{RRM}$			500	μA
I_R	$V_R=\text{Rated } V_{RRM}, T_A=100^\circ\text{C}$			20	mA
V_F	$I_F=3.0\text{A}$ (CMSH3-20MA and CMSH3-40MA)			0.50	V
V_F	$I_F=3.0\text{A}$ (CMSH3-60MA)			0.70	V
V_F	$I_F=3.0\text{A}$ (CMSH3-100MA)			0.85	V
C_J	$V_R=4.0\text{V}, f=1.0\text{MHz}$		280		pF

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SMA CASE - MECHANICAL OUTLINE



MARKING CODES:

DEVICE	MARKING CODE
CMSH3-20MA	CS320MA
CMSH3-40MA	CS340MA
CMSH3-60MA	CS360MA
CMSH3-100MA	CS3100MA

SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.030	0.060	0.76	1.52
B	0.004	0.008	0.10	0.20
C	0.006	0.012	0.15	0.30
D	0.078	0.103	1.98	2.62
E	0.188	0.220	4.78	5.59
F	0.090	0.115	2.29	2.92
G	0.050	0.070	1.27	1.78
H	0.157	0.181	3.99	4.60

SMA (REV: R1)

DATA
SHEETS