

CMSH1-40HE CMSH1-100HE
 CMSH1-60HE CMSH1-150HE
 CMSH1-80HE CMSH1-200HE

**SURFACE MOUNT SILICON
 SCHOTTKY RECTIFIERS
 1.0 AMP, 40 THRU 200 VOLT**



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSH1-40HE series 1.0 Amp surface mount silicon Schottky rectifier is a highly efficient component designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications.

MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE



SMA CASE

FEATURES:

- High reliability
- High efficiency Schottky rectifier
- 40V to 200V range
- Low leakage current
- Low V_F

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

	SYMBOL	CMSH1						UNITS
		-40HE	-60HE	-80HE	-100HE	-150HE	-200HE	
Peak Repetitive Reverse Voltage	V_{RRM}	40	60	80	100	150	200	V
DC Blocking Voltage	V_R	40	60	80	100	150	200	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	42	56	70	105	140	V
Average Forward Current	I_O				1.0			A
Peak Forward Surge Current, $t_p=8.3\text{ms}$	I_{FSM}				30			A
Power Dissipation	P_D				1.4			W
Operating and Storage Junction Temperature	T_J, T_{stg}				-65 to +150			$^\circ\text{C}$
Thermal Resistance	θ_{JA}				89			$^\circ\text{C/W}$
Thermal Resistance	θ_{JL}				30			$^\circ\text{C/W}$

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

SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_R	$V_R=\text{Rated } V_{RRM}$		50	μA
I_R	$V_R=\text{Rated } V_{RRM}, T_A=100^\circ\text{C}$		20	mA
V_F	$I_F=1.0\text{A}$ (CMSH1-40HE)	0.69	0.70	V
V_F	$I_F=1.0\text{A}$ (CMSH1-60HE)	0.69	0.74	V
V_F	$I_F=1.0\text{A}$ (CMSH1-80HE, -100HE)	0.77	0.80	V
V_F	$I_F=1.0\text{A}$ (CMSH1-150HE)	0.80	0.90	V
V_F	$I_F=1.0\text{A}$ (CMSH1-200HE)	0.81	0.90	V
C_J	$V_R=0, f=1.0\text{MHz}$ (CMSH1-40HE, 60HE)	116		pF
C_J	$V_R=0, f=1.0\text{MHz}$ (CMSH1-80HE, 100HE)	104		pF
C_J	$V_R=0, f=1.0\text{MHz}$ (CMSH1-150HE)	86		pF
C_J	$V_R=0, f=1.0\text{MHz}$ (CMSH1-200HE)	62.5		pF

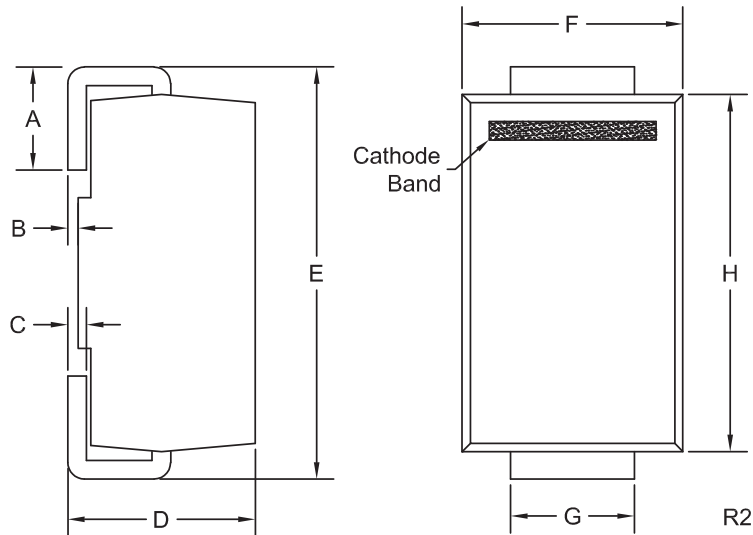
R3 (24-November 2015)

CMSH1-40HE CMSH1-100HE
 CMSH1-60HE CMSH1-150HE
 CMSH1-80HE CMSH1-200HE



**SURFACE MOUNT SILICON
 SCHOTTKY RECTIFIERS
 1.0 AMP, 40 THRU 200 VOLT**

SMA CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE
CMSH1-40HE	CS40HE
CMSH1-60HE	CS60HE
CMSH1-80HE	CS80HE
CMSH1-100HE	CS100HE
CMSH1-150HE	CS150HE
CMSH1-200HE	CS200HE

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: R2)

R3 (24-November 2015)

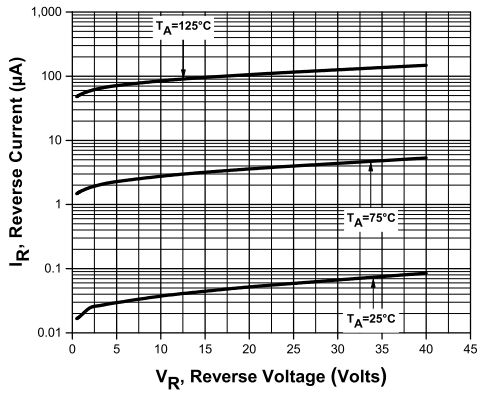
CMSH1-40HE CMSH1-100HE
 CMSH1-60HE CMSH1-150HE
 CMSH1-80HE CMSH1-200HE



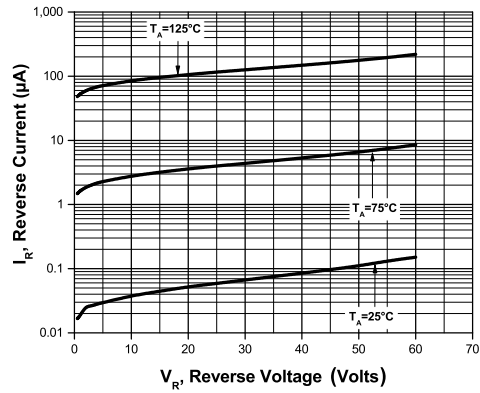
SURFACE MOUNT SILICON
 SCHOTTKY RECTIFIERS
 1.0 AMP, 40 THRU 200 VOLT

TYPICAL ELECTRICAL CHARACTERISTICS

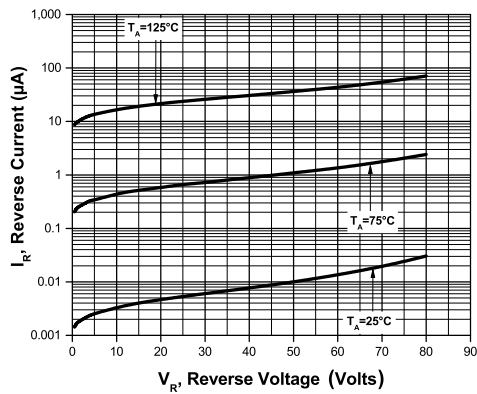
Leakage Current for CMSH1-40HE



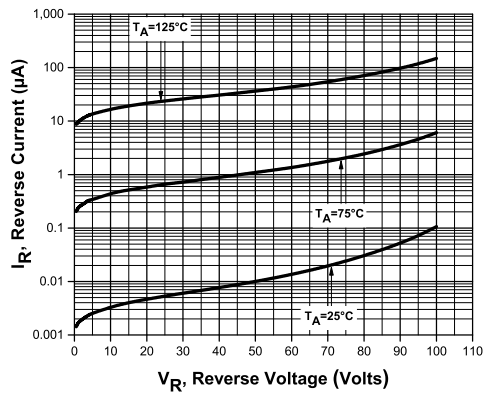
Leakage Current for CMSH1-60HE



Leakage Current for CMSH1-80HE



Leakage Current for CMSH1-100HE



R3 (24-November 2015)

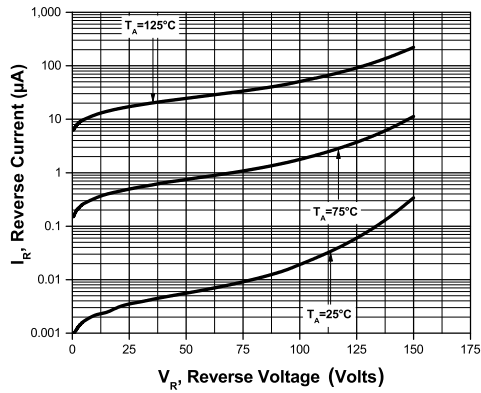
CMSH1-40HE CMSH1-100HE
 CMSH1-60HE CMSH1-150HE
 CMSH1-80HE CMSH1-200HE



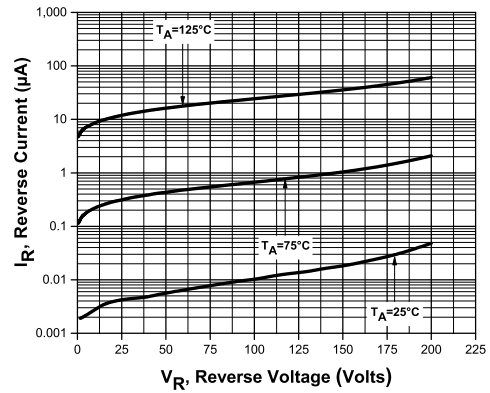
SURFACE MOUNT SILICON
 SCHOTTKY RECTIFIERS
 1.0 AMP, 40 THRU 200 VOLT

TYPICAL ELECTRICAL CHARACTERISTICS

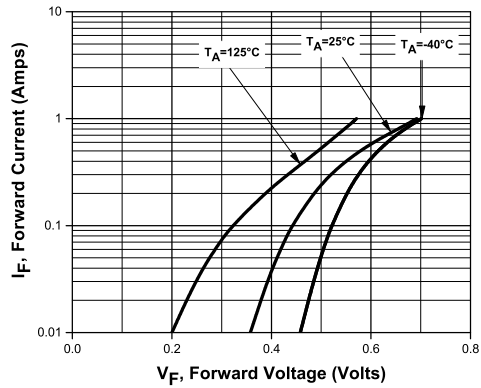
Leakage Current for CMSH1-150HE



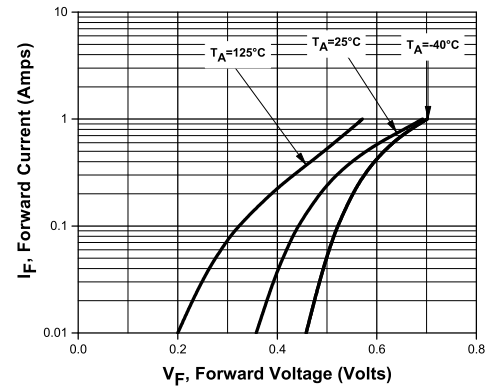
Leakage Current for CMSH1-200HE



Forward Voltage for CMSH1-40HE



Forward Voltage for CMSH1-60HE



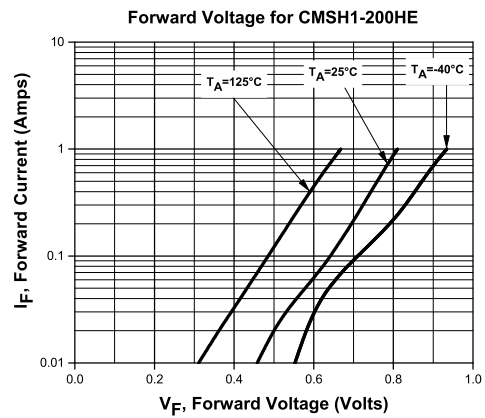
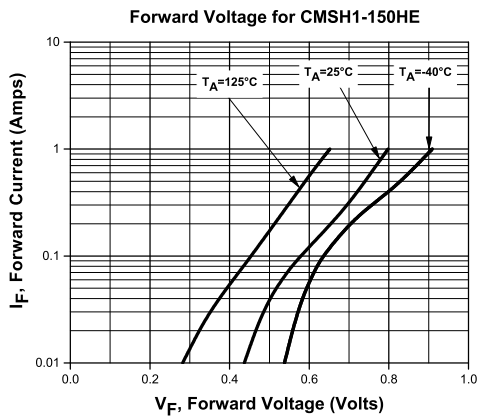
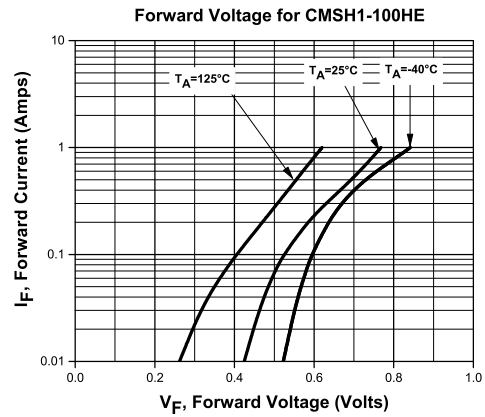
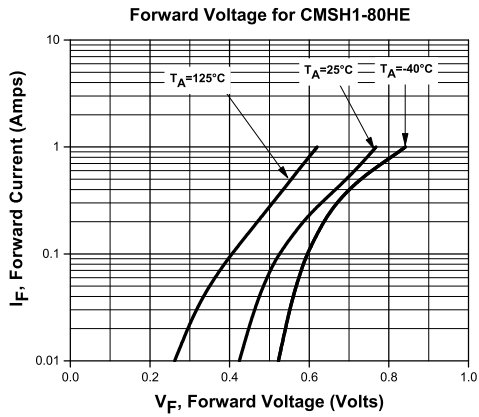
R3 (24-November 2015)

CMSH1-40HE CMSH1-100HE
 CMSH1-60HE CMSH1-150HE
 CMSH1-80HE CMSH1-200HE



SURFACE MOUNT SILICON
 SCHOTTKY RECTIFIERS
 1.0 AMP, 40 THRU 200 VOLT

TYPICAL ELECTRICAL CHARACTERISTICS



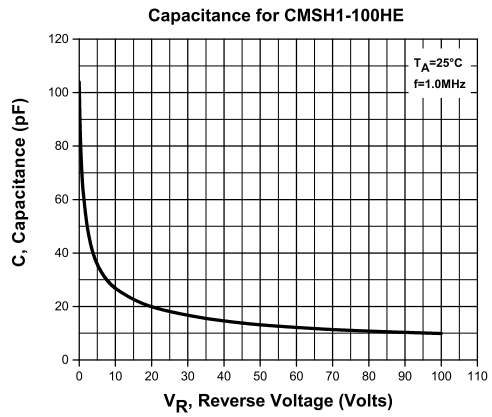
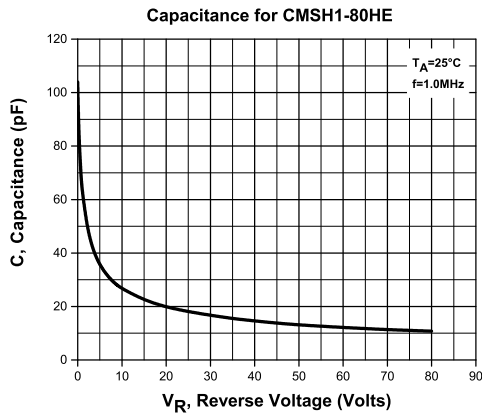
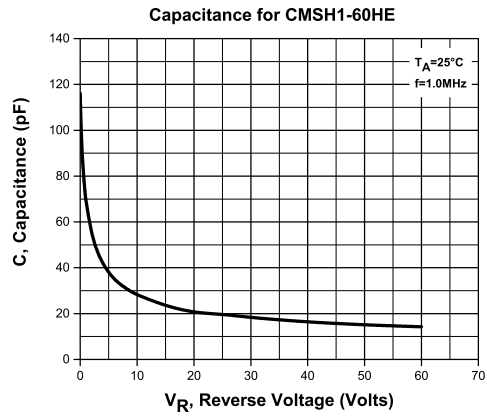
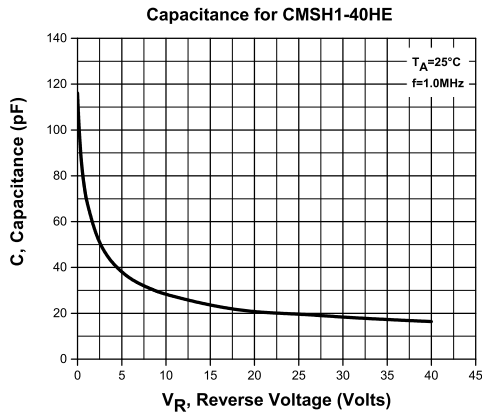
R3 (24-November 2015)

CMSH1-40HE CMSH1-100HE
 CMSH1-60HE CMSH1-150HE
 CMSH1-80HE CMSH1-200HE



SURFACE MOUNT SILICON
 SCHOTTKY RECTIFIERS
 1.0 AMP, 40 THRU 200 VOLT

TYPICAL ELECTRICAL CHARACTERISTICS



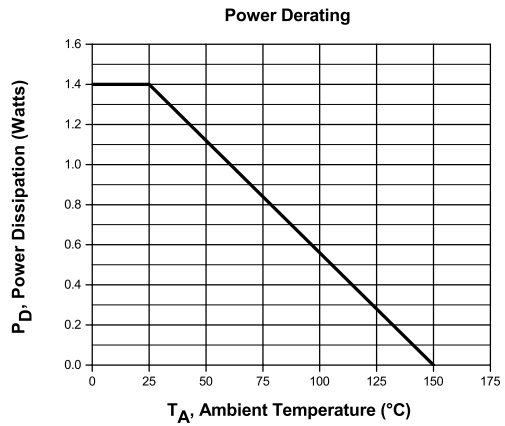
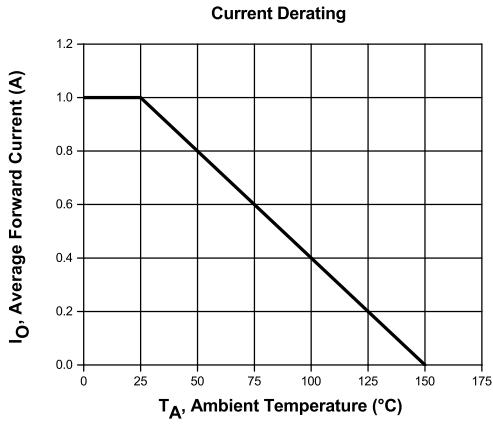
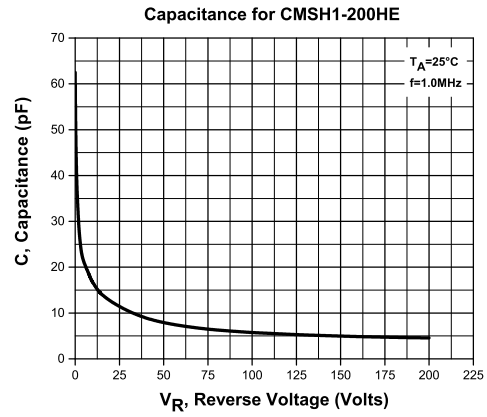
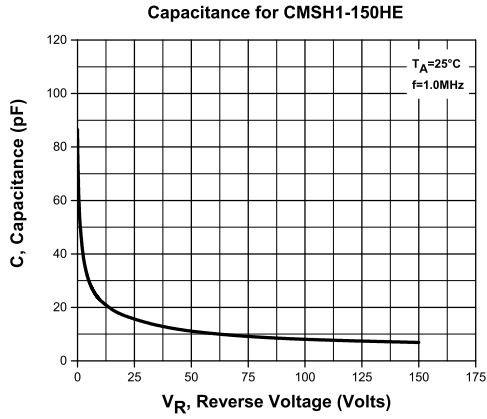
R3 (24-November 2015)

CMSH1-40HE CMSH1-100HE
 CMSH1-60HE CMSH1-150HE
 CMSH1-80HE CMSH1-200HE



SURFACE MOUNT SILICON
 SCHOTTKY RECTIFIERS
 1.0 AMP, 40 THRU 200 VOLT

TYPICAL ELECTRICAL CHARACTERISTICS



R3 (24-November 2015)



OUTSTANDING SUPPORT AND SUPERIOR SERVICES

PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix " TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix " PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

Corporate Headquarters & Customer Support Team

Central Semiconductor Corp.
145 Adams Avenue
Hauppauge, NY 11788 USA
Main Tel: (631) 435-1110
Main Fax: (631) 435-1824
Support Team Fax: (631) 435-3388
www.centalsemi.com

Worldwide Field Representatives:
www.centalsemi.com/wwreps

Worldwide Distributors:
www.centalsemi.com/wwdistributors

For the latest version of Central Semiconductor's **LIMITATIONS AND DAMAGES DISCLAIMER**, which is part of Central's Standard Terms and Conditions of sale, visit: www.centalsemi.com/terms

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Schottky Diodes & Rectifiers](#) category:

Click to view products by [Central Semiconductor](#) manufacturer:

Other Similar products are found below :

[MA4E2039](#) [D1FH3-5063](#) [MBR10100CT-BP](#) [MBR1545CT](#) [MMBD301M3T5G](#) [RB160M-50TR](#) [RB551V-30](#) [BAS16E6433HTMA1](#) [BAT](#)
[54-02LRH E6327](#) [NSR05F40QNXT5G](#) [NTE555](#) [JANS1N6640](#) [SB07-03C-TB-H](#) [SK310-T](#) [SK32A-LTP](#) [SK33A-TP](#) [SK34B-TP](#) [SS3003CH-](#)
[TL-E](#) [GA01SHT18](#) [CRS10I30A\(TE85L,QM](#) [MA4E2501L-1290](#) [MBRA140TRPBF](#) [MBRB30H30CT-1G](#) [SB007-03C-TB-E](#) [SK32A-TP](#)
[SK33B-TP](#) [SK35A-TP](#) [SK38B-TP](#) [NRVBM120LT1G](#) [NTE505](#) [NTSB30U100CT-1G](#) [SS15E-TP](#) [VS-6CWQ10FNHM3](#) [ACDBA1100LR-HF](#)
[ACDBA1200-HF](#) [ACDBA140-HF](#) [ACDBA2100-HF](#) [ACDBA3100-HF](#) [CDBQC0530L-HF](#) [CDBQC0240LR-HF](#) [BAT6202VH6327XTSA1](#)
[ACDBA340-HF](#) [ACDBA260LR-HF](#) [ACDBA1100-HF](#) [SK310B-TP](#) [MA4E2502L-1246](#) [MA4E2502H-1246](#) [NRVBM120ET1G](#)
[NSR01L30MXT5G](#) [NTE573](#)