

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

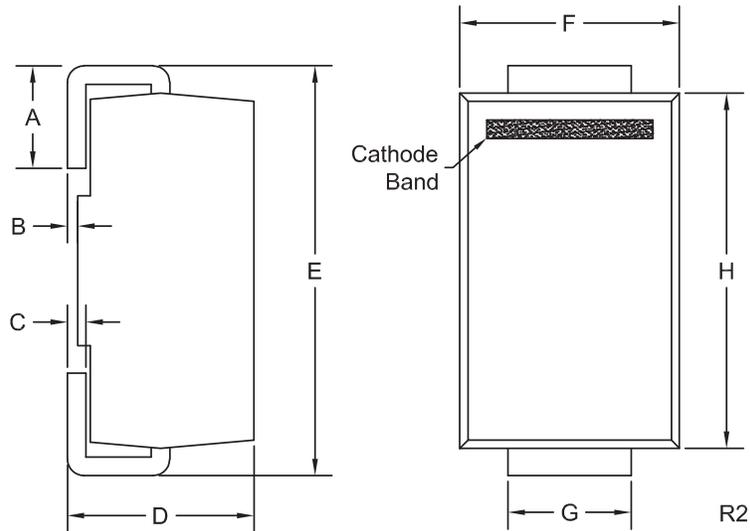
R3 (24-November 2015)

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)

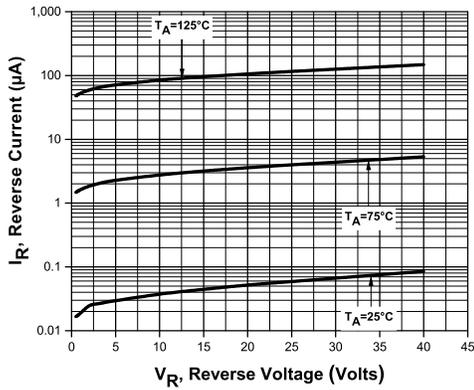
CMSH1-40HE CMSH1-100HE
 CMSH1-60HE CMSH1-150HE
 CMSH1-80HE CMSH1-200HE



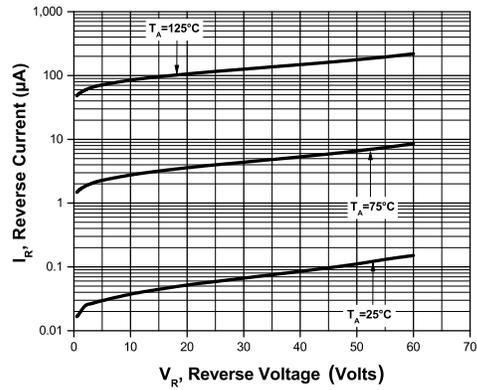
SURFACE MOUNT SILICON
 SCHOTTKY RECTIFIERS
 1.0 AMP, 40 THRU 200 VOLT

TYPICAL ELECTRICAL CHARACTERISTICS

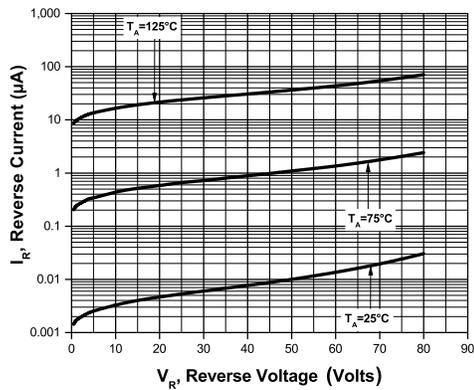
Leakage Current for CMSH1-40HE



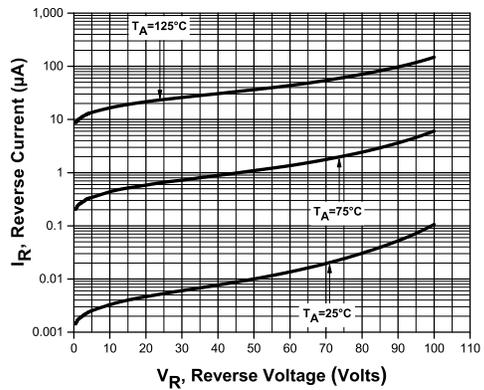
Leakage Current for CMSH1-60HE



Leakage Current for CMSH1-80HE



Leakage Current for CMSH1-100HE



R3 (24-November 2015)

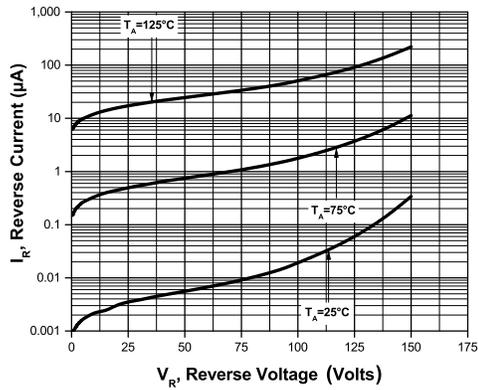
CMSH1-40HE CMSH1-100HE
 CMSH1-60HE CMSH1-150HE
 CMSH1-80HE CMSH1-200HE



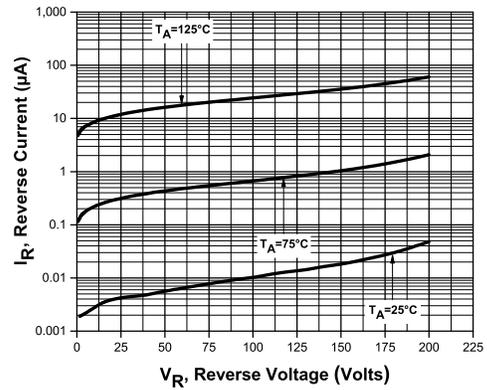
SURFACE MOUNT SILICON
 SCHOTTKY RECTIFIERS
 1.0 AMP, 40 THRU 200 VOLT

TYPICAL ELECTRICAL CHARACTERISTICS

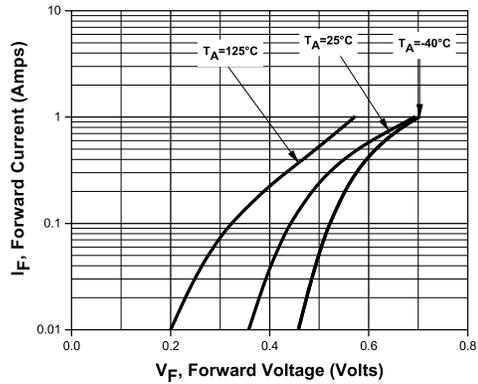
Leakage Current for CMSH1-150HE



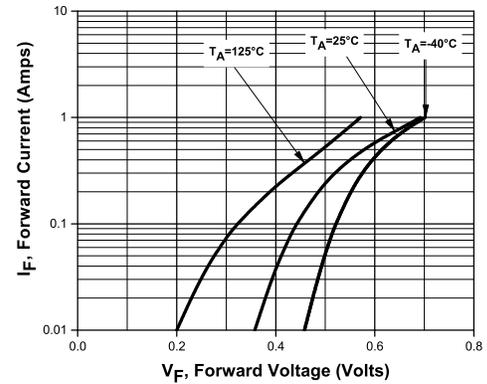
Leakage Current for CMSH1-200HE



Forward Voltage for CMSH1-40HE



Forward Voltage for CMSH1-60HE



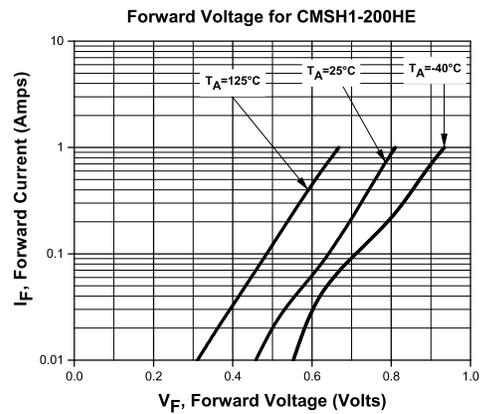
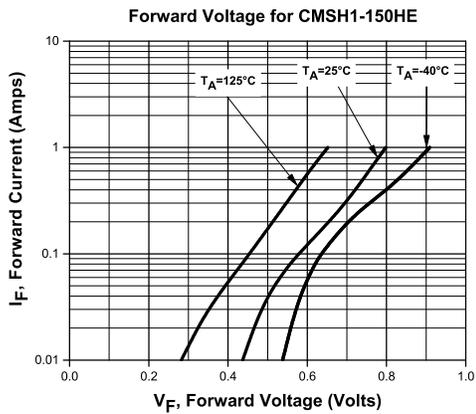
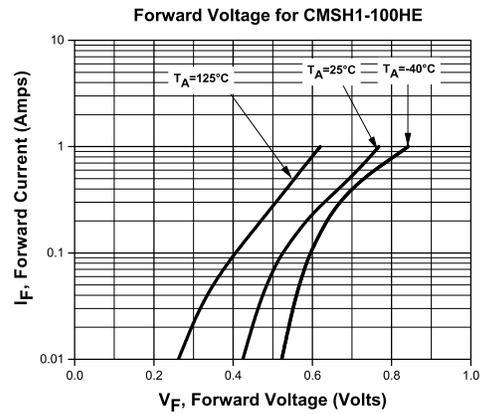
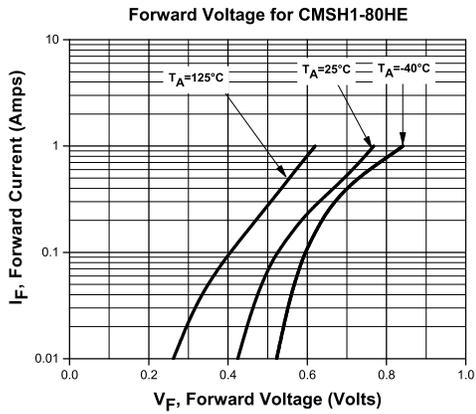
R3 (24-November 2015)

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



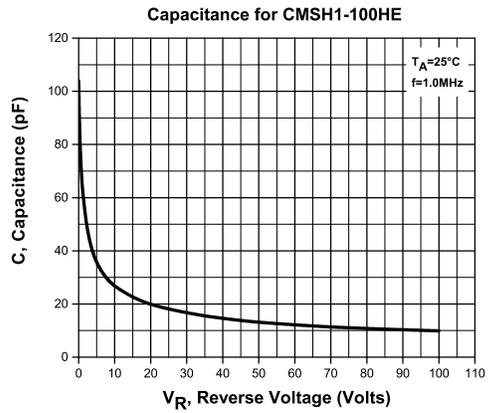
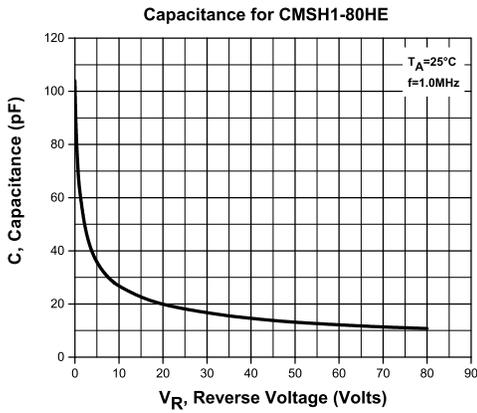
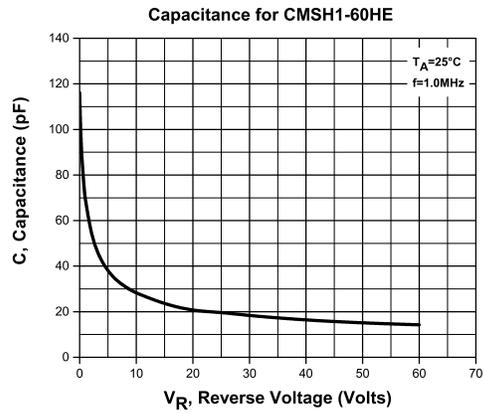
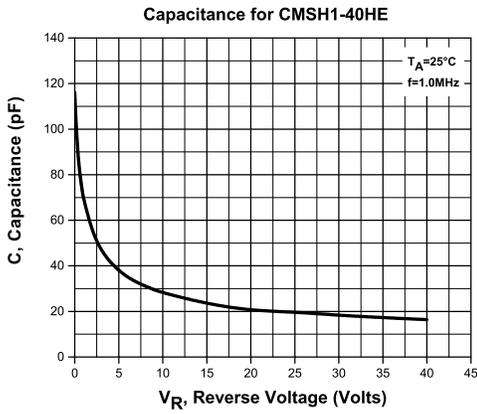
R3 (24-November 2015)

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)

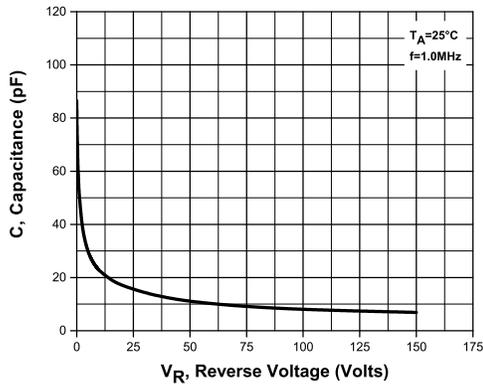
CMSH1-40HE CMSH1-100HE
 CMSH1-60HE CMSH1-150HE
 CMSH1-80HE CMSH1-200HE



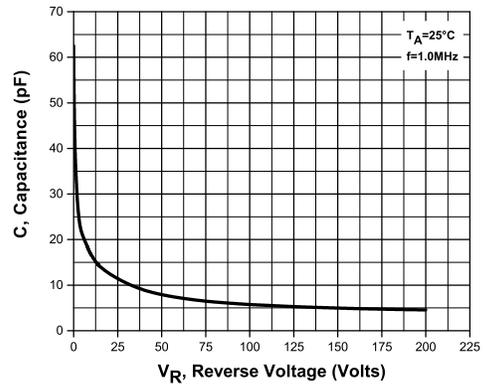
SURFACE MOUNT SILICON
 SCHOTTKY RECTIFIERS
 1.0 AMP, 40 THRU 200 VOLT

TYPICAL ELECTRICAL CHARACTERISTICS

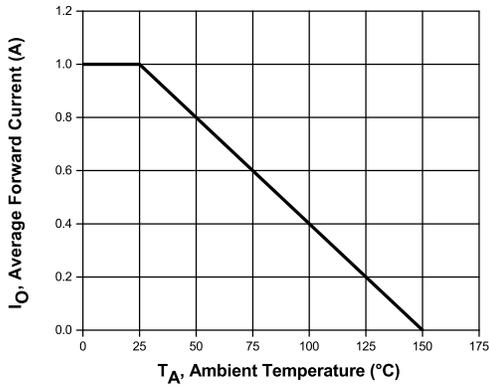
Capacitance for CMSH1-150HE



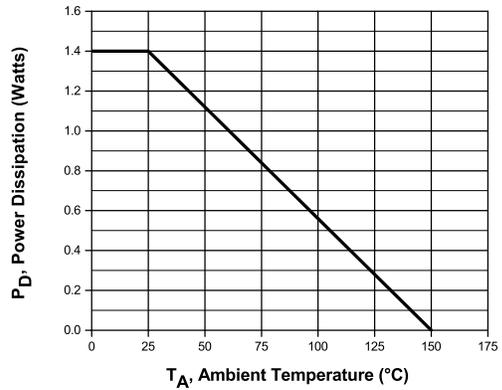
Capacitance for CMSH1-200HE



Current Derating



Power Derating



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.centrasemi.com

Worldwide Field Representatives:
www.centrasemi.com/wwreps

Worldwide Distributors:
www.centrasemi.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.centrasemi.com/terms

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкуренспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: org@lifeelectronics.ru