

CMSH2-20 CMSH2-60
 CMSH2-40 CMSH2-100

**SURFACE MOUNT SILICON
 SCHOTTKY RECTIFIERS
 2.0 AMP, 20 THRU 100 VOLT**



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSH2-20 series 2.0 Amp surface mount silicon rectifier is a highly reliable component designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications.

MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE



SMB CASE

FEATURES:

- High reliability
- Special selections available

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

	SYMBOL	CMSH2 -20	CMSH2 -40	CMSH2 -60	CMSH2 -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	70	V
Average Forward Current ($T_A=55^\circ\text{C}$)	I_O			2.0		A
Peak Forward Surge Current, $t_p=8.3\text{ms}$	I_{FSM}			50		A
Operating and Storage Junction Temperature	T_J, T_{stg}			-65 to +150		$^\circ\text{C}$
Thermal Resistance	θ_{JL}			20		$^\circ\text{C/W}$

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

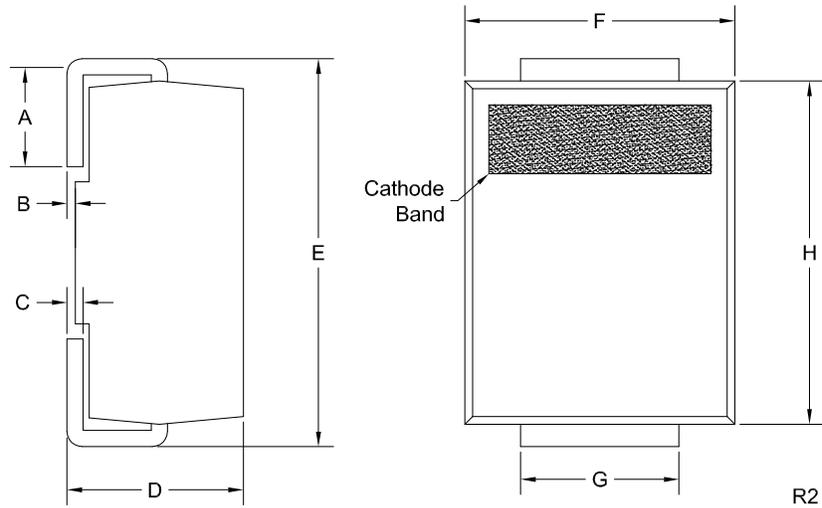
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_R	V_R =Rated V_{RRM}		0.50	mA
I_R	V_R =Rated V_{RRM} , $T_A=100^\circ\text{C}$		20	mA
V_F	$I_F=2.0\text{A}$ (CMSH2-20)	0.40	0.50	V
V_F	$I_F=2.0\text{A}$ (CMSH2-40)	0.48	0.50	V
V_F	$I_F=2.0\text{A}$ (CMSH2-60)	0.56	0.70	V
V_F	$I_F=2.0\text{A}$ (CMSH2-100)	0.76	0.85	V
C_J	$V_R=4.0\text{V}$, $f=1.0\text{MHz}$, (CMSH2-20)	236		pF
C_J	$V_R=4.0\text{V}$, $f=1.0\text{MHz}$, (CMSH2-40)	101		pF
C_J	$V_R=4.0\text{V}$, $f=1.0\text{MHz}$, (CMSH2-60)	84		pF
C_J	$V_R=4.0\text{V}$, $f=1.0\text{MHz}$, (CMSH2-100)	76		pF

CMSH2-20 CMSH2-60
 CMSH2-40 CMSH2-100

**SURFACE MOUNT SILICON
 SCHOTTKY RECTIFIERS
 2.0 AMP, 20 THRU 100 VOLT**



SMB CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE
CMSH2-20	CS220
CMSH2-40	CS240
CMSH2-60	CS260
CMSH2-100	CS2100

SYMBOL	DIMENSIONS			
	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.030	0.060	0.76	1.52
B	0.000	0.008	0.00	0.20
C	0.006	0.012	0.15	0.30
D	0.086	0.096	2.18	2.44
E	0.200	0.220	5.08	5.59
F	0.130	0.150	3.30	3.81
G	0.077	0.083	1.96	2.11
H	0.160	0.191	4.06	4.85

SMB (REV: R2)

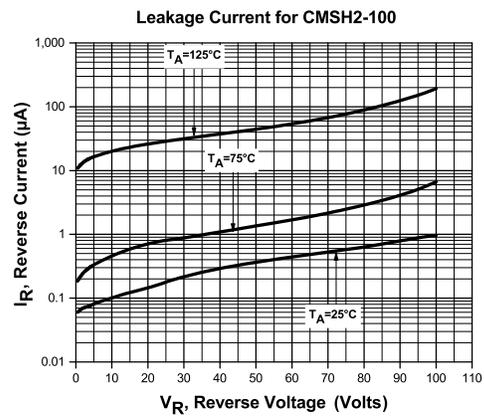
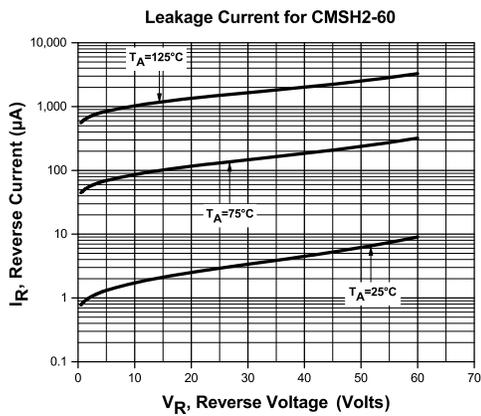
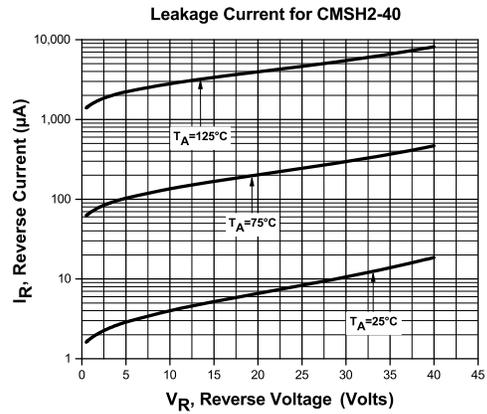
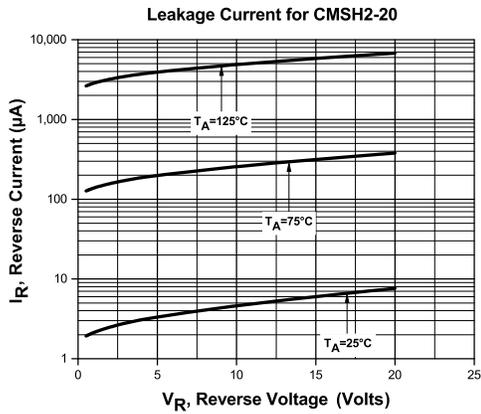
R6 (6-September 2018)

CMSH2-20 CMSH2-60
 CMSH2-40 CMSH2-100

SURFACE MOUNT SILICON
 SCHOTTKY RECTIFIERS
 2.0 AMP, 20 THRU 100 VOLT



TYPICAL ELECTRICAL CHARACTERISTICS



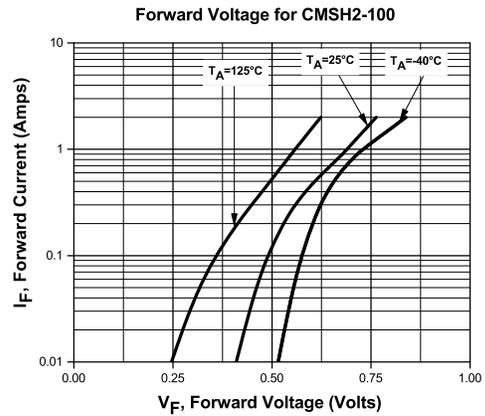
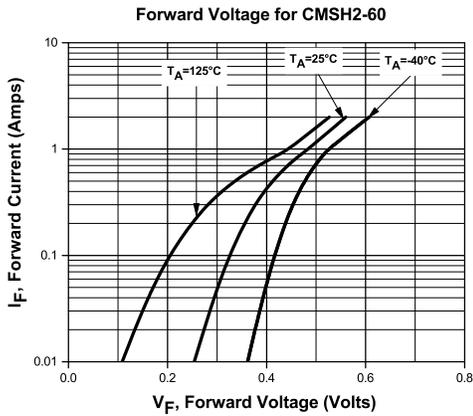
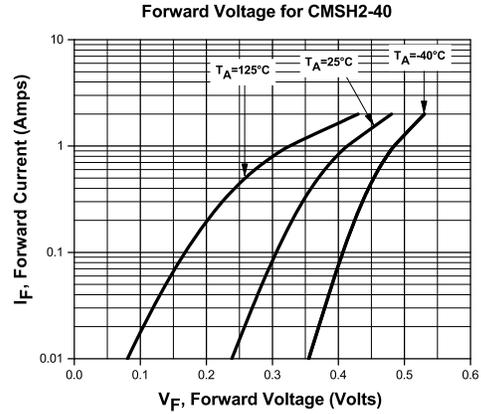
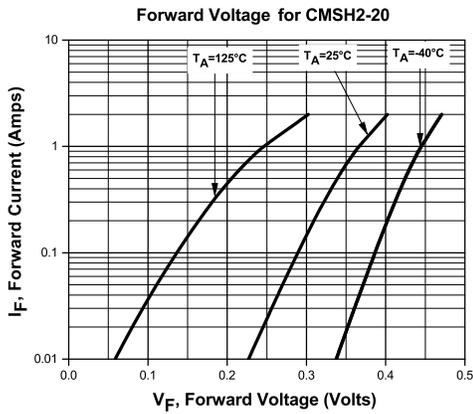
R6 (6-September 2018)

CMSH2-20 CMSH2-60
 CMSH2-40 CMSH2-100

**SURFACE MOUNT SILICON
 SCHOTTKY RECTIFIERS
 2.0 AMP, 20 THRU 100 VOLT**



TYPICAL ELECTRICAL CHARACTERISTICS



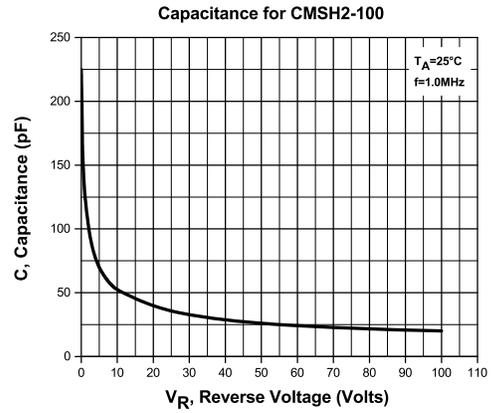
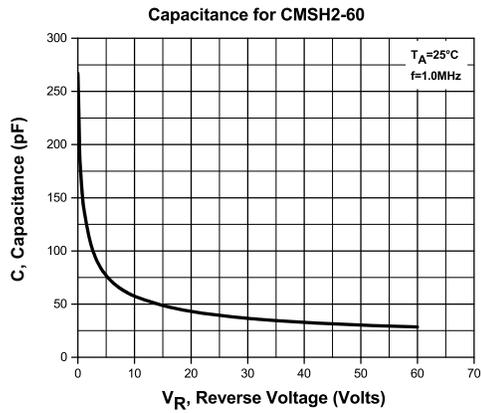
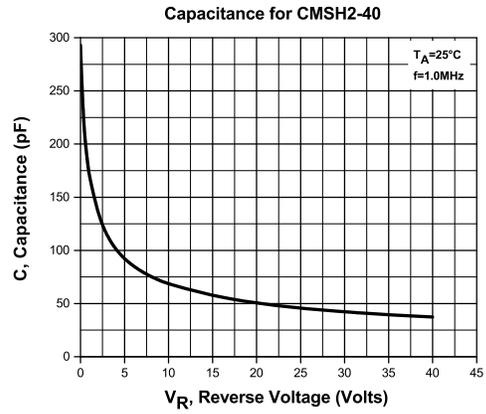
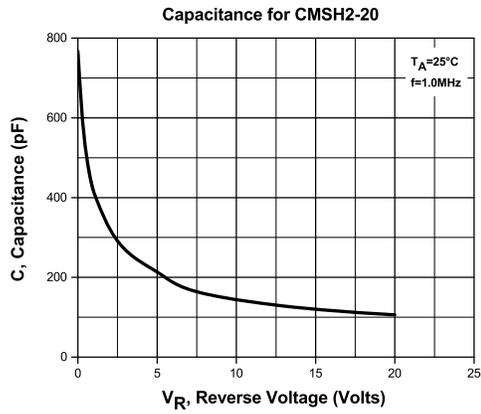
R6 (6-September 2018)

CMSH2-20 CMSH2-60
CMSH2-40 CMSH2-100

SURFACE MOUNT SILICON
SCHOTTKY RECTIFIERS
2.0 AMP, 20 THRU 100 VOLT



TYPICAL ELECTRICAL CHARACTERISTICS



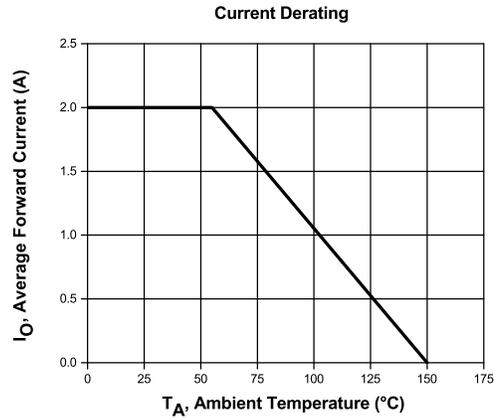
R6 (6-September 2018)

CMSH2-20 CMSH2-60
CMSH2-40 CMSH2-100

SURFACE MOUNT SILICON
SCHOTTKY RECTIFIERS
2.0 AMP, 20 THRU 100 VOLT



TYPICAL ELECTRICAL CHARACTERISTICS



R6 (6-September 2018)

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 «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.