

## Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Central Semiconductor Corp](#)  
[CMSH3-100MA TR13](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

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

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



**SMA CASE**



[www.centrasemi.com](http://www.centrasemi.com)

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMSH3-20MA series 3.0 Amp surface mount silicon Schottky rectifier is a well constructed, 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**

**FEATURES:**

- High current capability
- Flammability classification UL94V-0
- High reliability

**MAXIMUM RATINGS:** (T<sub>A</sub>=25°C unless otherwise noted)

	SYMBOL	CMSH3 -20MA	CMSH3 -40MA	CMSH3 -60MA	CMSH3 -100MA	UNITS
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	20	40	60	100	V
DC Blocking Voltage	V <sub>R</sub>	20	40	60	100	V
RMS Reverse Voltage	V <sub>R(RMS)</sub>	14	28	42	71	V
Average Forward Current (T <sub>L</sub> =75°C)	I <sub>O</sub>			3.0		A
Peak Forward Surge Current, tp=8.3ms	I <sub>FSM</sub>			80		A
Operating and Storage Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>			-65 to +150		°C
Thermal Resistance	θ <sub>JL</sub>			30		°C/W

**ELECTRICAL CHARACTERISTICS:** (T<sub>A</sub>=25°C unless otherwise noted)

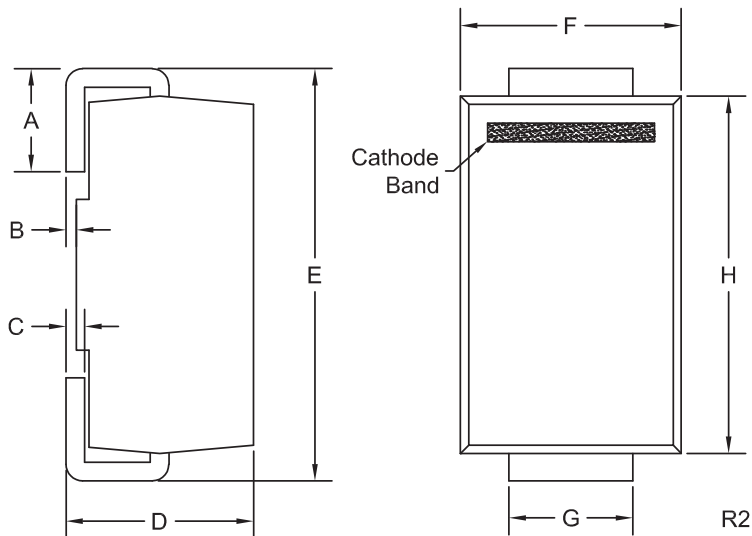
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I <sub>R</sub>	V <sub>R</sub> =Rated V <sub>RRM</sub>		500	µA
I <sub>R</sub>	V <sub>R</sub> =Rated V <sub>RRM</sub> , T <sub>A</sub> =100°C		20	mA
V <sub>F</sub>	I <sub>F</sub> =3.0A (CMSH3-20MA)	0.46	0.50	V
V <sub>F</sub>	I <sub>F</sub> =3.0A (CMSH3-40MA)	0.47	0.50	V
V <sub>F</sub>	I <sub>F</sub> =3.0A (CMSH3-60MA)	0.56	0.70	V
V <sub>F</sub>	I <sub>F</sub> =3.0A (CMSH3-100MA)	0.76	0.85	V
C <sub>J</sub>	V <sub>R</sub> =4.0V, f=1.0MHz (CMSH3-20MA)	174		pF
C <sub>J</sub>	V <sub>R</sub> =4.0V, f=1.0MHz (CMSH3-40MA)	160		pF
C <sub>J</sub>	V <sub>R</sub> =4.0V, f=1.0MHz (CMSH3-60MA)	121		pF
C <sub>J</sub>	V <sub>R</sub> =4.0V, f=1.0MHz (CMSH3-100MA)	83		pF

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

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**SMA CASE - MECHANICAL OUTLINE**



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

SYMBOL	DIMENSIONS			
	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)

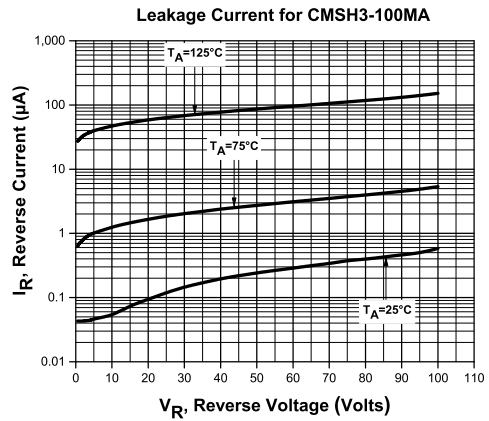
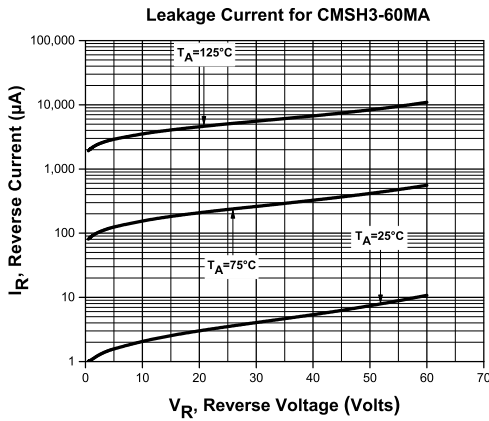
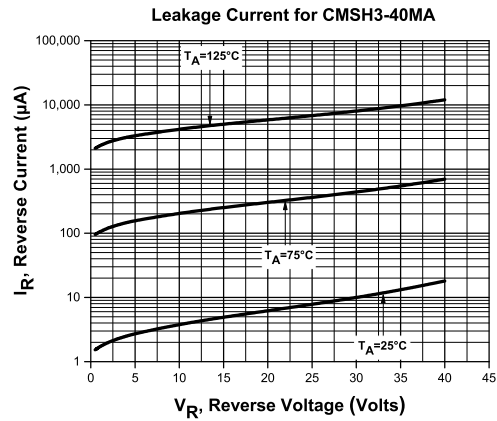
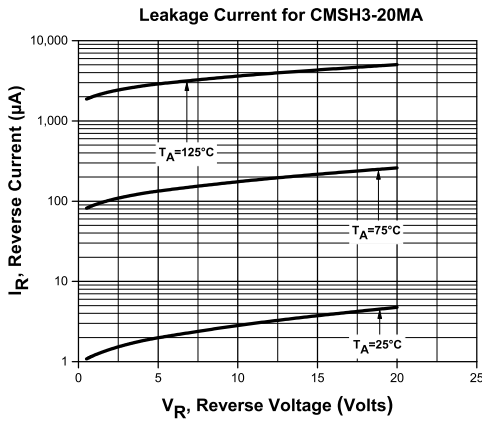
R4 (3-February 2016)

CMSH3-20MA CMSH3-60MA  
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**TYPICAL ELECTRICAL CHARACTERISTICS**



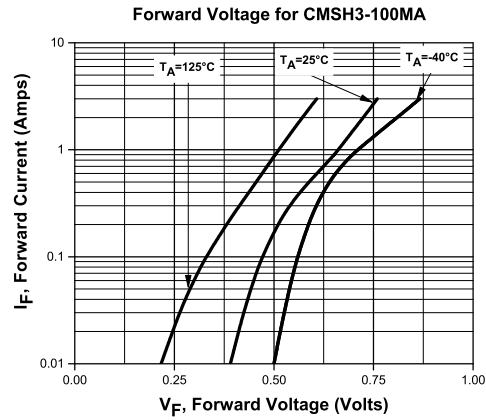
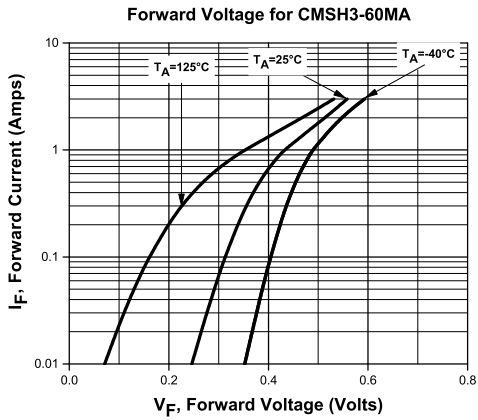
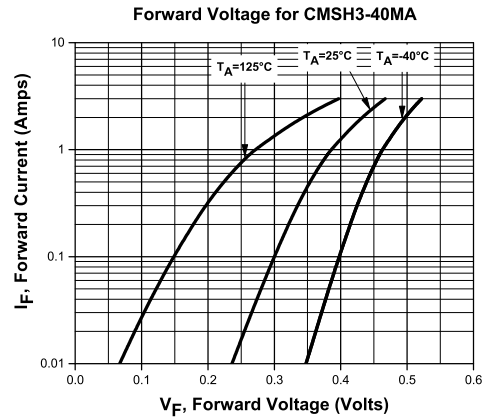
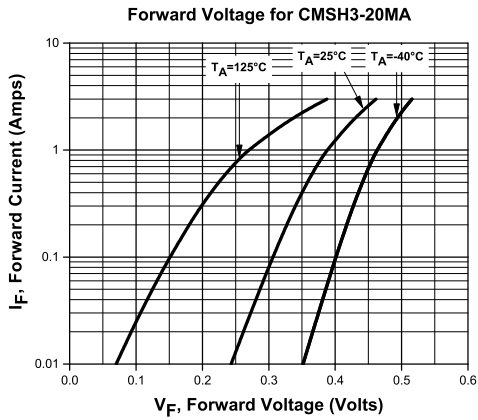
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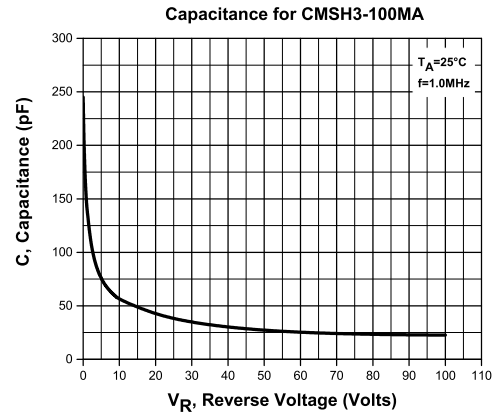
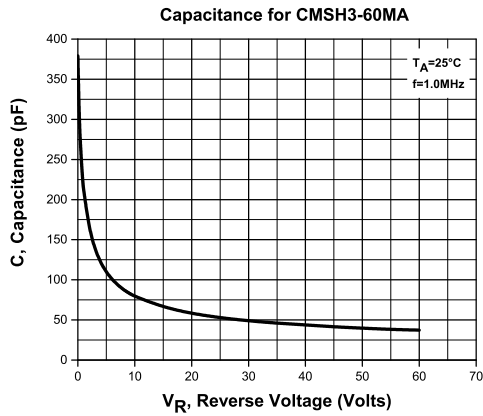
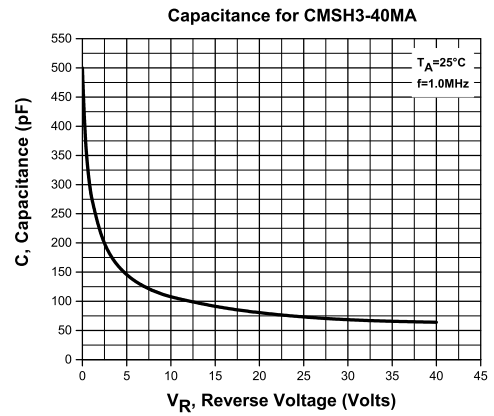
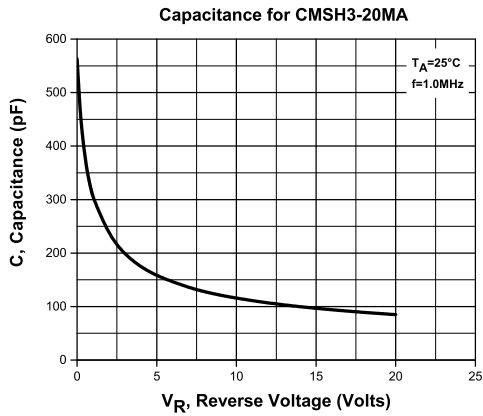
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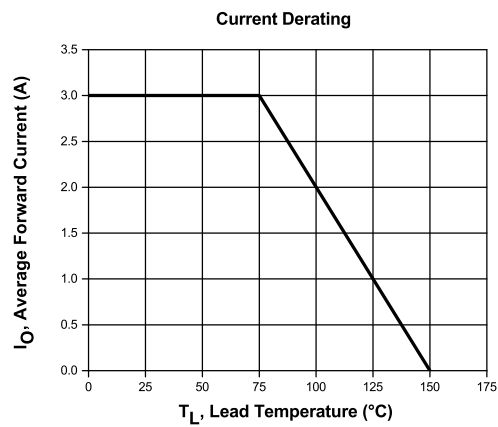
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**TYPICAL ELECTRICAL CHARACTERISTICS**



R4 (3-February 2016)

## OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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### 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

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### DESIGNER SUPPORT/SERVICES

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

- Free quick ship samples (2<sup>nd</sup> 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

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### CONTACT US

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