



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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

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



**SMA CASE**



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

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMSH2-20M series 2.0 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:** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

		<b>CMSH2</b>	<b>CMSH2</b>	<b>CMSH2</b>	<b>CMSH2</b>	
	<b>SYMBOL</b>	<b>-20M</b>	<b>-40M</b>	<b>-60M</b>	<b>-100M</b>	<b>UNITS</b>
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 ( $T_L=75^\circ\text{C}$ )	$I_O$			2.0		A
Peak Forward Surge Current, $t_p=8.3\text{ms}$	$I_{FSM}$			50		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	$\theta_{JA}$			89		$^\circ\text{C/W}$
Thermal Resistance	$\theta_{JL}$			30		$^\circ\text{C/W}$

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

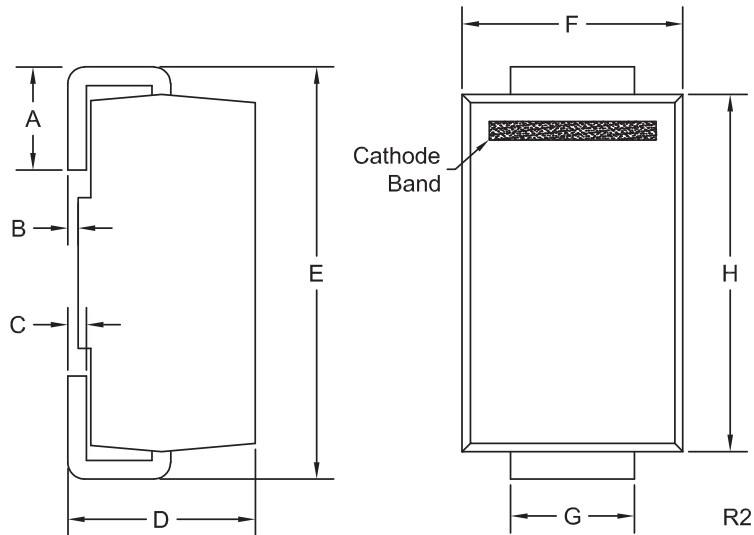
<b>SYMBOL</b>	<b>TEST CONDITIONS</b>	<b>TYP</b>	<b>MAX</b>	<b>UNITS</b>
$I_R$	$V_R=\text{Rated } V_{RRM}$		0.50	mA
$I_R$	$V_R=\text{Rated } V_{RRM}, T_A=100^\circ\text{C}$		20	mA
$V_F$	$I_F=2.0\text{A}$ (CMSH2-20M)	0.44	0.55	V
$V_F$	$I_F=2.0\text{A}$ (CMSH2-40M)	0.47	0.55	V
$V_F$	$I_F=2.0\text{A}$ (CMSH2-60M)	0.53	0.70	V
$V_F$	$I_F=2.0\text{A}$ (CMSH2-100M)	0.76	0.85	V
$C_J$	$V_R=4.0\text{V}, f=1.0\text{MHz}$ (CMSH2-20M)	139		pF
$C_J$	$V_R=4.0\text{V}, f=1.0\text{MHz}$ (CMSH2-40M)	101		pF
$C_J$	$V_R=4.0\text{V}, f=1.0\text{MHz}$ (CMSH2-60M)	94		pF
$C_J$	$V_R=4.0\text{V}, f=1.0\text{MHz}$ (CMSH2-100M)	74		pF

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**SMA CASE - MECHANICAL OUTLINE**



DEVICE	MARKING CODE
CMSH2-20M	CS220M
CMSH2-40M	CS240M
CMSH2-60M	CS260M
CMSH2-100M	CS2100M

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)

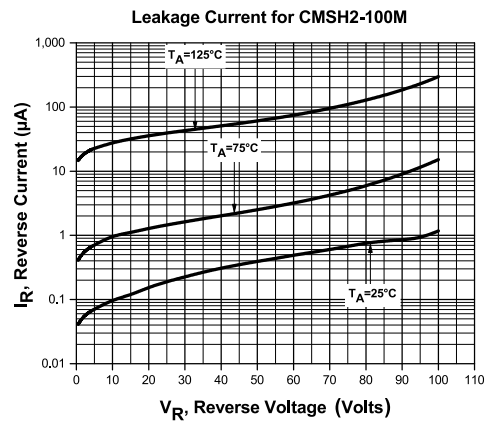
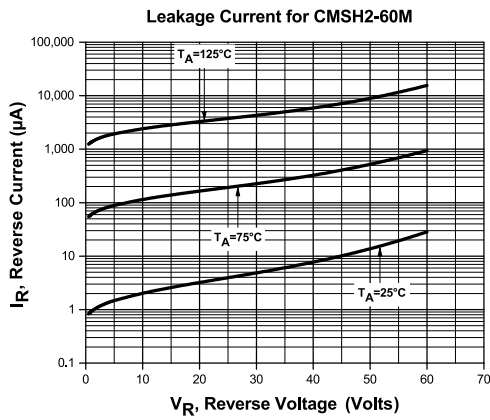
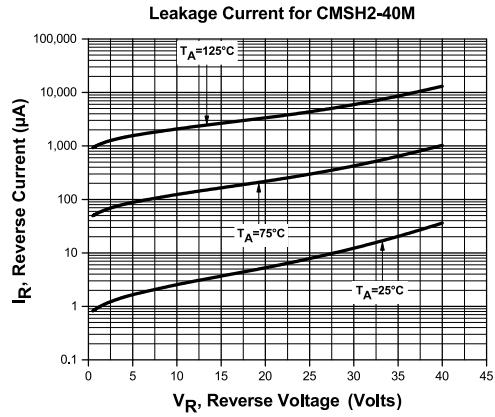
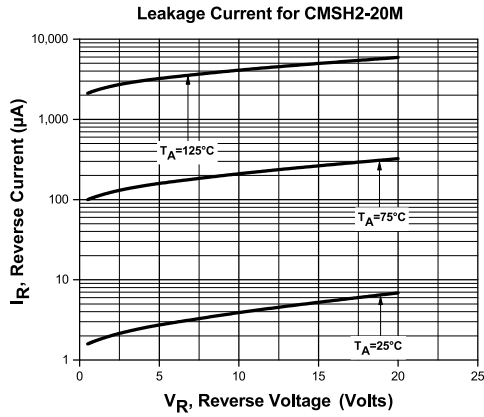
R4 (1-December 2015)

CMSH2-20M CMSH2-60M  
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TYPICAL ELECTRICAL CHARACTERISTICS



R4 (1-December 2015)

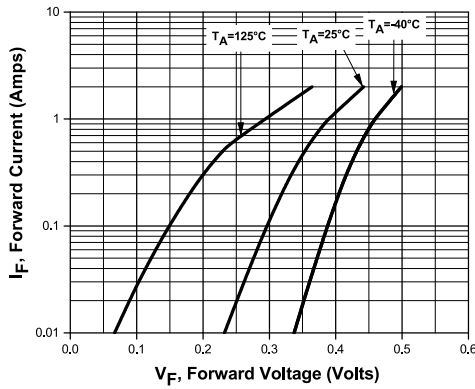
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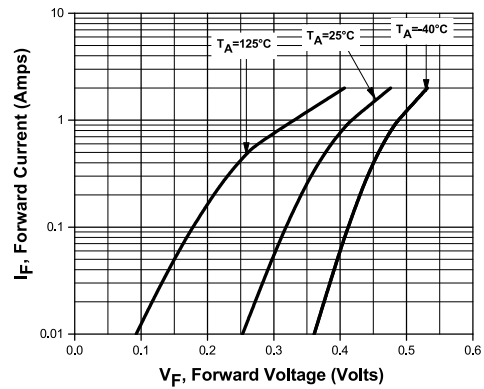


TYPICAL ELECTRICAL CHARACTERISTICS

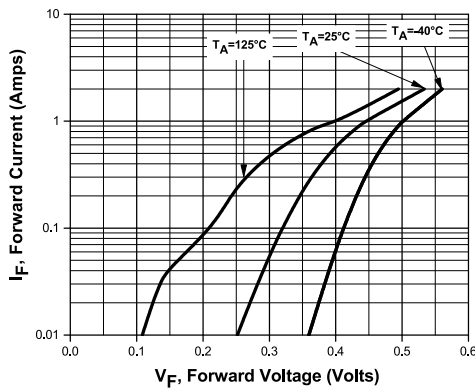
Forward Voltage for CMSH2-20M



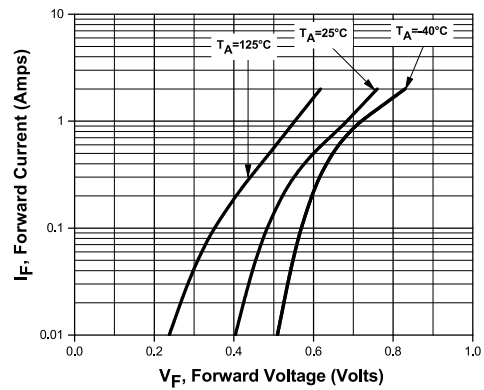
Forward Voltage for CMSH2-40M



Forward Voltage for CMSH2-60M



Forward Voltage for CMSH2-100M



R4 (1-December 2015)

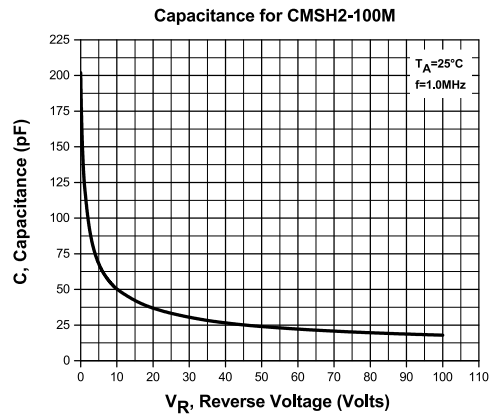
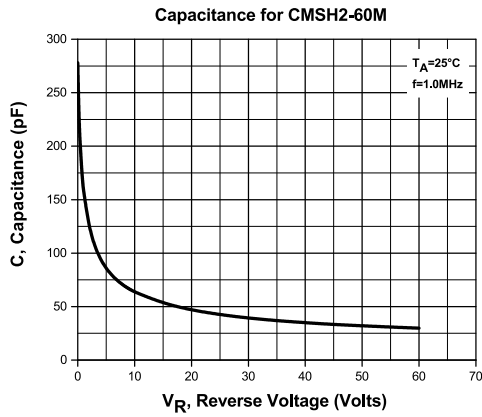
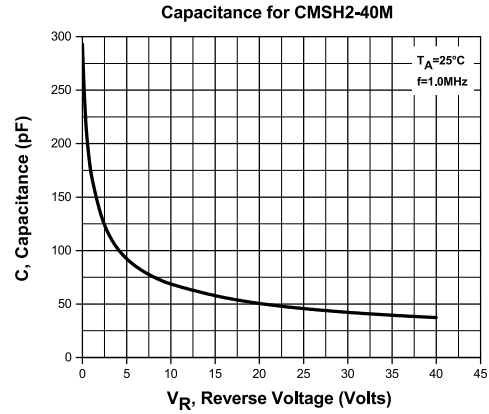
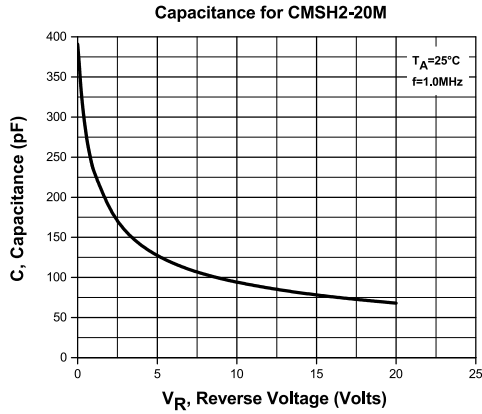


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### TYPICAL ELECTRICAL CHARACTERISTICS



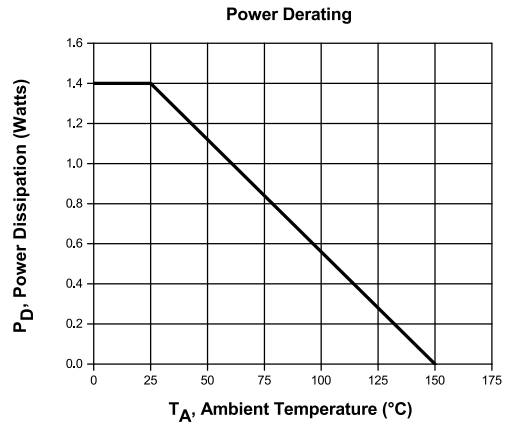
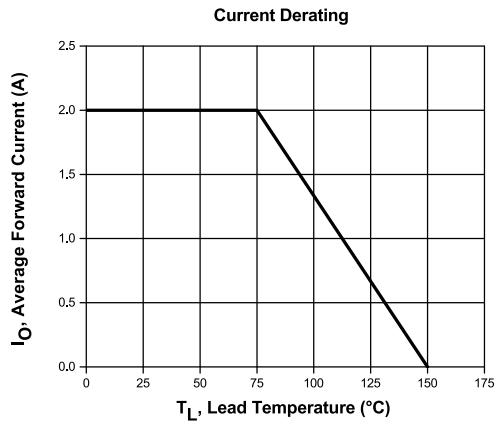
R4 (1-December 2015)

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### TYPICAL ELECTRICAL CHARACTERISTICS



R4 (1-December 2015)

## 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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### 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).

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### CONTACT US

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

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