



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!



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CMSH3-20M CMSH3-60M
 CMSH3-40M CMSH3-100M

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



SMB CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSH3-20M series 3.0 Amp surface mount silicon Schottky 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

FEATURES:

- High current capability
- Flammability classification UL94V-0

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

	SYMBOL	CMSH3 -20M	CMSH3 -40M	CMSH3 -60M	CMSH3 -100M	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	71	V
Average Forward Current ($T_L=75^\circ\text{C}$)	I_O			3.0		A
Peak Forward Surge Current, $t_p=8.3\text{ms}$	I_{FSM}			80		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)

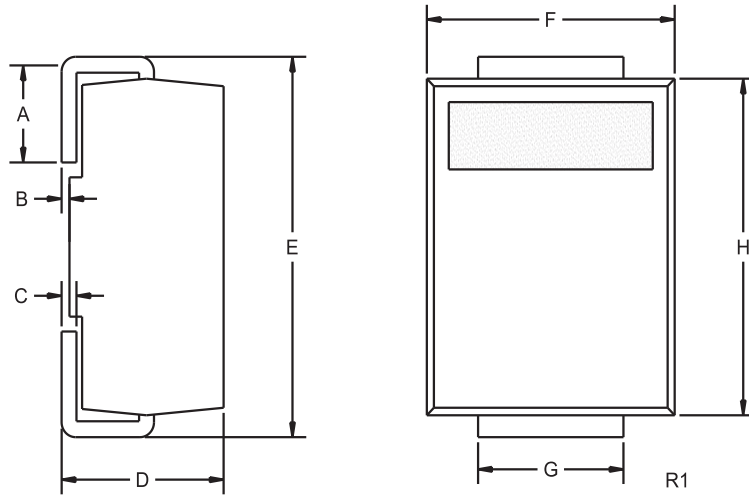
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_R	V_R =Rated V_{RRM}		500	μA
I_R	V_R =Rated V_{RRM} , $T_A=100^\circ\text{C}$		20	mA
V_F	$I_F=3.0\text{A}$ (CMSH3-20M, -40M)	0.48	0.55	V
V_F	$I_F=3.0\text{A}$ (CMSH3-60M)	0.56	0.75	V
V_F	$I_F=3.0\text{A}$ (CMSH3-100M)	0.75	0.85	V
C_J	$V_R=4.0\text{V}$, $f=1.0\text{MHz}$ (CMSH3-20M)	139		pF
C_J	$V_R=4.0\text{V}$, $f=1.0\text{MHz}$ (CMSH3-40M)	167		pF
C_J	$V_R=4.0\text{V}$, $f=1.0\text{MHz}$ (CMSH3-60M)	121		pF
C_J	$V_R=4.0\text{V}$, $f=1.0\text{MHz}$ (CMSH3-100M)	87		pF

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SMB CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE
CMSH3-20M	CS320M
CMSH3-40M	CS340M
CMSH3-60M	CS360M
CMSH3-100M	CS3100M

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	0.086	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	0.180	4.06	4.57

SMB (REV: R1)

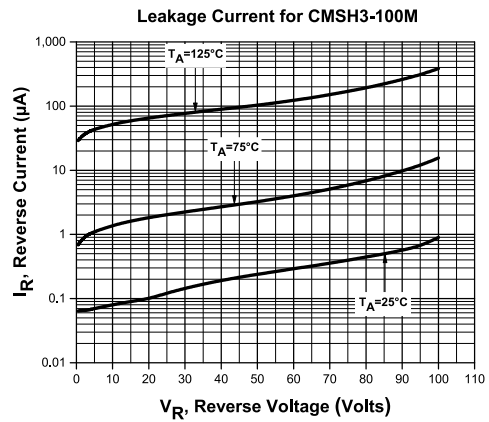
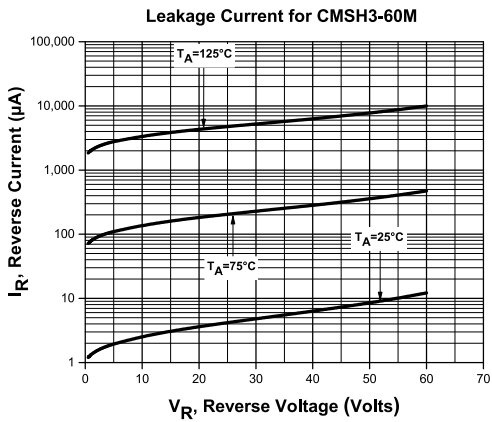
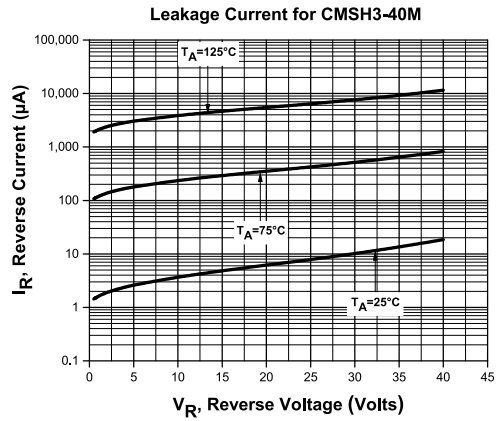
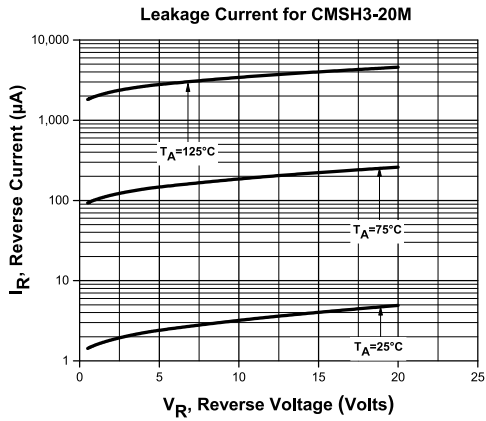
R4 (8-January 2016)

CMSH3-20M CMSH3-60M
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TYPICAL ELECTRICAL CHARACTERISTICS



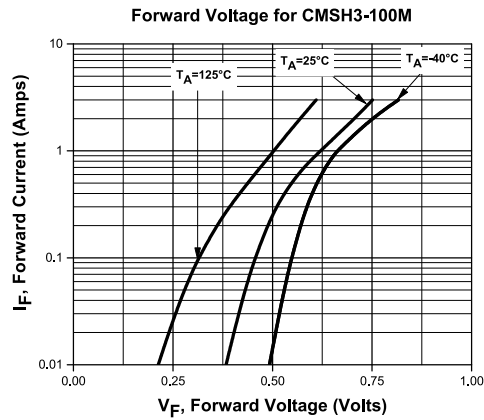
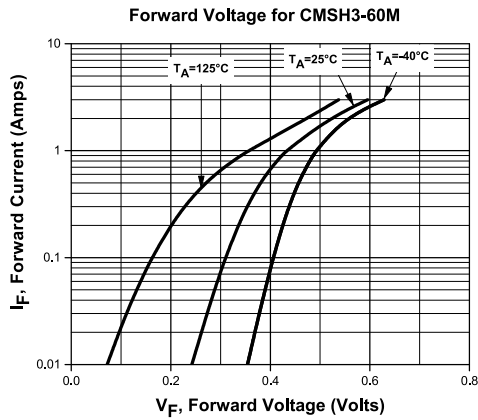
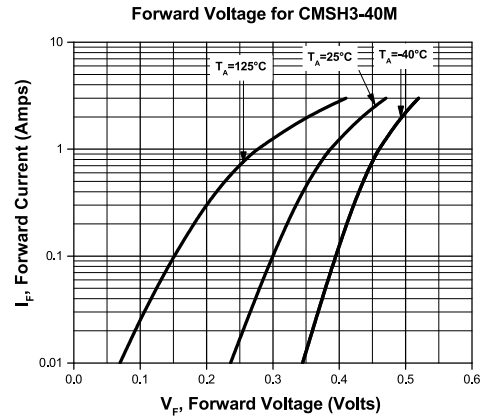
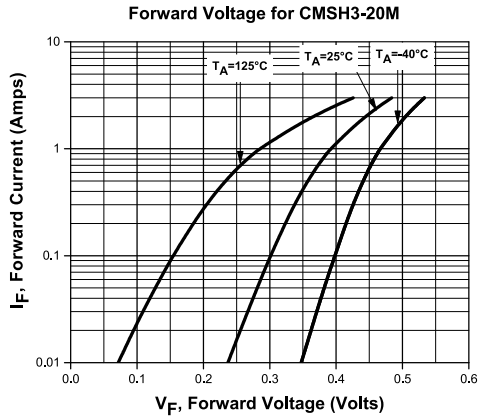
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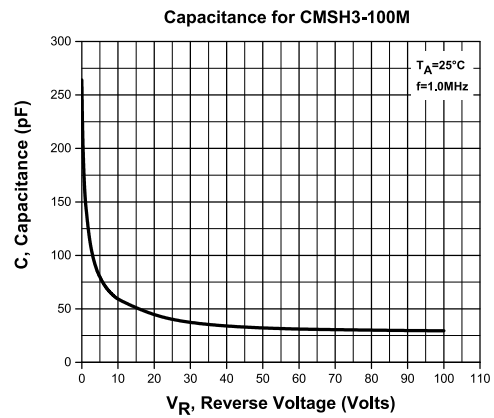
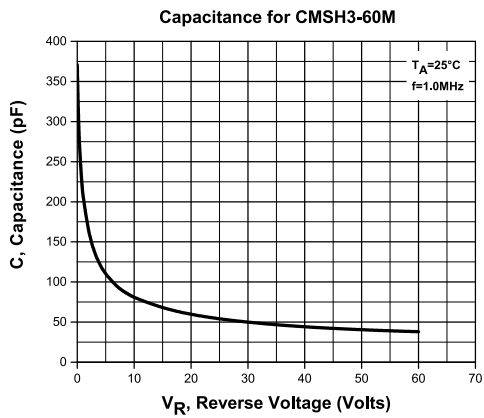
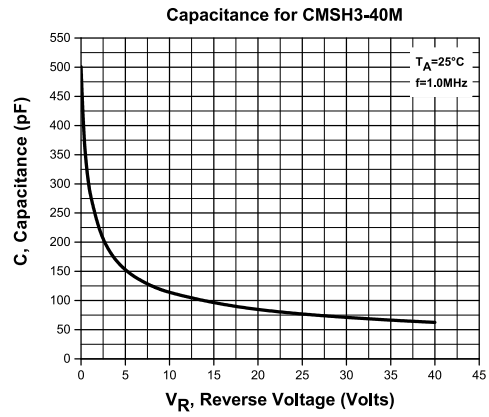
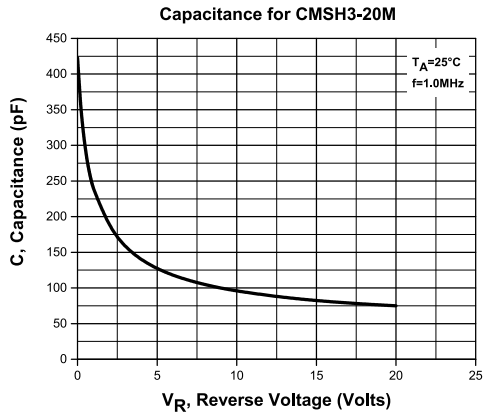
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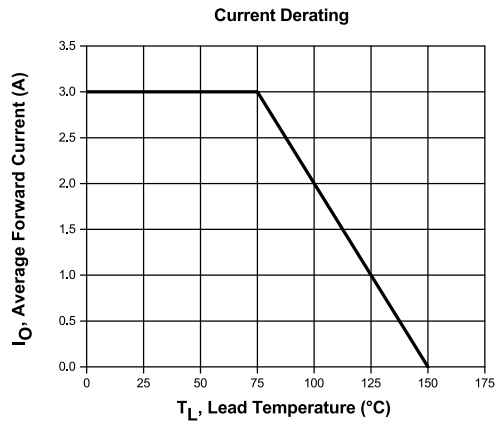
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TYPICAL ELECTRICAL CHARACTERISTICS



R4 (8-January 2016)

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

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