

SMA CASE

FEATURES:

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

Central Semiconductor Corp.

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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

MAXIMUM RATINGS: (TA=25°C unless otherwise	e noted)					
	SYMBOL	CMSH3 -20MA	CMSH3 -40MA	CMSH3 <u>-60MA</u>	CMSH3 -100MA	UNITS
Peak Repetitive Reverse Voltage	V _{RRM}	20	40	60	100	V
DC Blocking Voltage	VR	20	40	60	100	V
RMS Reverse Voltage	V _{R(RMS)}	14	28	42	71	V
Average Forward Current (TL=75°C)	I _O			3.0		А
Peak Forward Surge Current, tp=8.3ms	IFSM			80		А
Operating and Storage Junction Temperature	TJ, Tstg		-65	to +150		°C
Thermal Resistance	Θ_{JL}			30		°C/W
ELECTRICAL CHARACTERISTICS: (T _A =25°C u	nless otherw	vise noted)				
SYMBOL TEST CONDITIONS		TYP		MAX	UNITS	
Ip Vp=Rated VppM				500	uА	

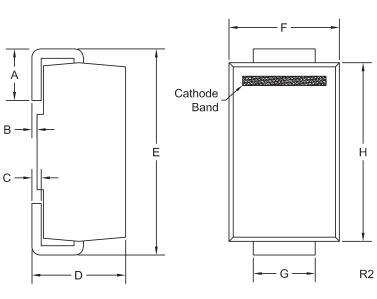
^I R	VR=Rated VRRM		500	μA	
I _R	V _R =Rated V _{RRM,} T _A =100°C		20	mA	
VF	I _F =3.0A (CMSH3-20MA)	0.46	0.50	V	
VF	I _F =3.0A (CMSH3-40MA)	0.47	0.50	V	
VF	I _F =3.0A (CMSH3-60MA)	0.56	0.70	V	
VF	I _F =3.0A (CMSH3-100MA)	0.76	0.85	V	
СЈ	V _R =4.0V, f=1.0MHz (CMSH3-20MA)	174		pF	
СЈ	V _R =4.0V, f=1.0MHz (CMSH3-40MA)	160		pF	
Сј	V _R =4.0V, f=1.0MHz (CMSH3-60MA)	121		pF	
СЈ	V _R =4.0V, f=1.0MHz (CMSH3-100MA)	83		pF	

R4 (3-February 2016)



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

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



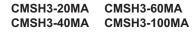
SMA CASE - MECHANICAL OUTLINE

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

	DIMENSIONS				
	INCHES		MILLIM	ETERS	
SYMBOL	MIN	MAX	MIN	MAX	
A	0.030	0.060	0.76	1.52	
В	0.004	0.008	0.10	0.20	
С	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	
Н	0.157	0.181	3.99	4.60	
SMA (REV: R2)					

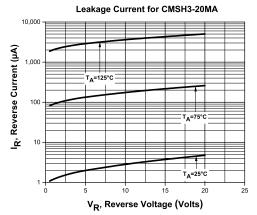
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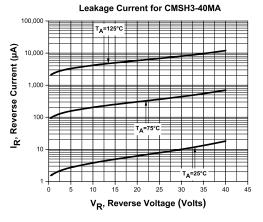


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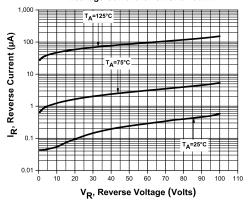
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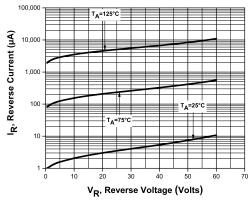
TYPICAL ELECTRICAL CHARACTERISTICS



Leakage Current for CMSH3-100MA



Leakage Current for CMSH3-60MA



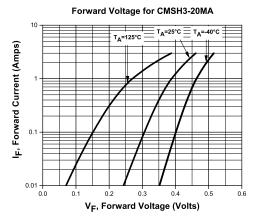
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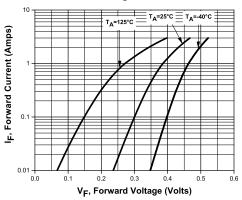


CMSH3-20MA CMSH3-60MA CMSH3-40MA CMSH3-100MA

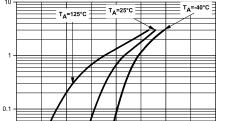
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TYPICAL ELECTRICAL CHARACTERISTICS



Forward Voltage for CMSH3-40MA



0.4

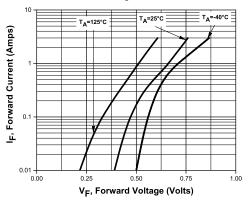
V_F, Forward Voltage (Volts)

0.6

0.8

Forward Voltage for CMSH3-60MA





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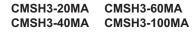
10

0.01

0.2

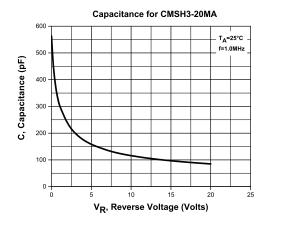
l_F, Forward Current (Amps)

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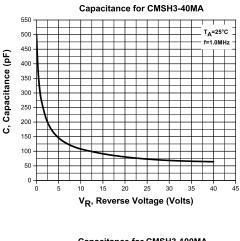


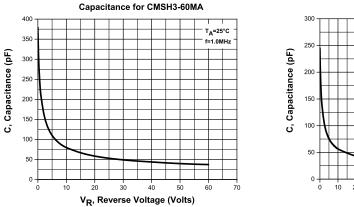
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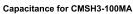
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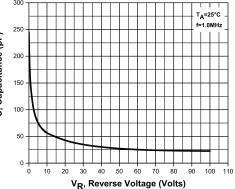






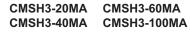






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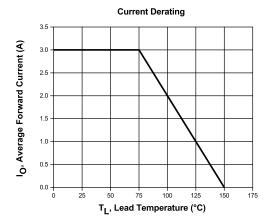
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SURFACE MOUNT SILICON SCHOTTKY RECTIFIERS 3.0 AMP, 20 THRU 100 VOLT

TYPICAL ELECTRICAL CHARACTERISTICS



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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

DESIGNER SUPPORT/SERVICES

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

- Free guick 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

· Custom product packing

Custom bar coding for shipments

- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits
- · Custom product and package development

REQUESTING PRODUCT PLATING

- If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when 1. 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

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