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

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



www.centralsemi.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°C unless otherwise	noted)	CMSH2	CMSH2	CMSH2	CMSH2	
	SYMBOL	<u>-20M</u>	<u>-40M</u>	<u>-60M</u>	<u>-100M</u>	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°C)	lo			2.0		Α
Peak Forward Surge Current, tp=8.3ms	I _{FSM}			50		Α
Power Dissipation	P_{D}			1.4		W
Operating and Storage Junction Temperature	T _J , T _{stg}		-65	to +150		°C
Thermal Resistance	$\Theta_{\sf JA}$			89		°C/W
Thermal Resistance	$\Theta_{\sf JL}$			30		°C/W

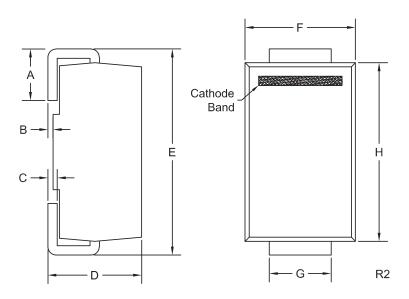
ELECTRICAL	. CHARACTERISTICS: $(T_A=25^{\circ}C$ unless oth	erwise noted)		
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
^I R	V _R =Rated V _{RRM}		0.50	mA
I_{R}	V _R =Rated V _{RRM,} T _A =100°C		20	mA
V_{F}	I _F =2.0A (CMSH2-20M)	0.44	0.55	V
V_{F}	I _F =2.0A (CMSH2-40M)	0.47	0.55	V
VF	I _F =2.0A (CMSH2-60M)	0.53	0.70	V
V _F	I _F =2.0A (CMSH2-100M)	0.76	0.85	V
CJ	V _R =4.0V, f=1.0MHz (CMSH2-20M)	139		pF
CJ	V _R =4.0V, f=1.0MHz (CMSH2-40M)	101		pF
CJ	V _R =4.0V, f=1.0MHz (CMSH2-60M)	94		pF
CJ	V _R =4.0V, f=1.0MHz (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		

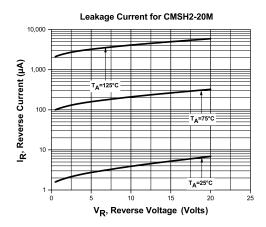
DIMENSIONS					
	INCHES		MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	
Α	0.030	0.060	0.76	1.52	
В	0.004	0.008	0.10	0.20	
С	0.006	0.012	0.15	0.30	
D	0.078	0.103	1.98	2.62	
E	0.188	0.220	4.78	5.59	
F	0.090	0.115	2.29	2.92	
G	0.050	0.070	1.27	1.78	
Н	0.157	0.181	3.99	4.60	

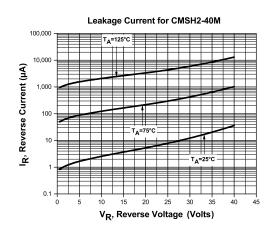
SMA (REV: R2)

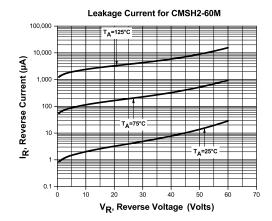
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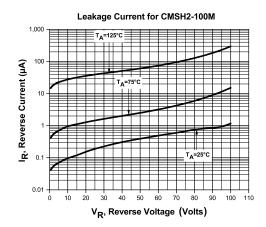
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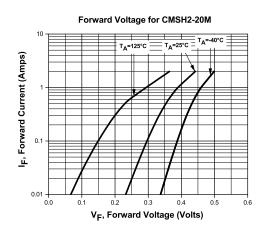


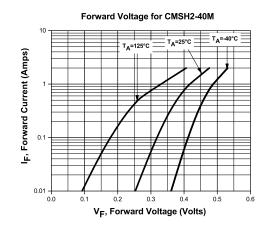


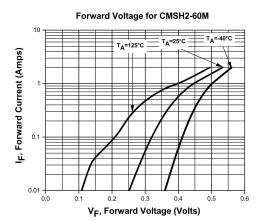
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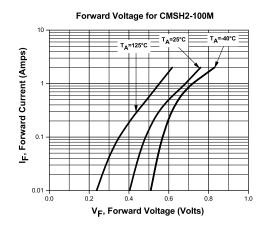
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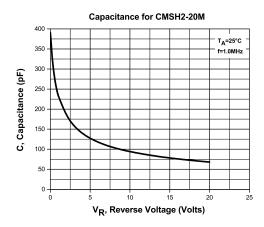


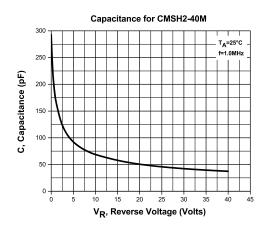


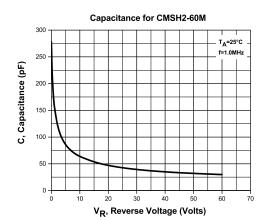
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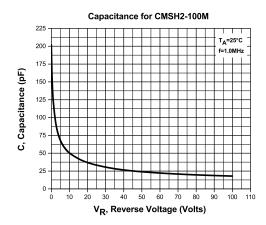
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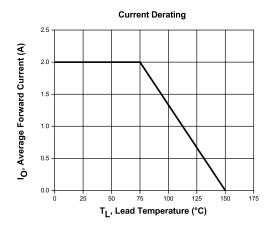


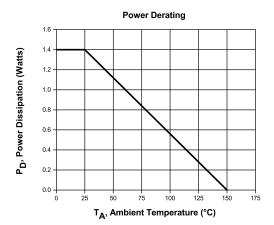


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OUTSTANDING SUPPORT AND SUPERIOR SERVICES



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

- · 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 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

- 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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