CMSH1-20M CMSH1-60M CMSH1-40M

SURFACE MOUNT SILICON SCHOTTKY RECTIFIERS 1.0 AMP, 20 THRU 100 VOLT



www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSH1-20M series 1.0 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 reliability
- · Special selections available

MAXIMUM RATINGS: (T _A =25°C unless otherwise	e noted) SYMBOL	CMSH1 -20M	CMSH1 -40M	CMSH1 -60M	CMSH1 -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	70	V
Average Forward Current (T _L =75°C)	IO	1.0	1.0			Α
Average Forward Current (T _L =100°C)	IO			1.0	1.0	Α
Peak Forward Surge Current, tp=8.3ms	I _{FSM}		3	0		Α
Power Dissipation	P_{D}	1.4				W
Operating and Storage Junction Temperature	T _J , T _{stg}		-65 to	+150		°C
Thermal Resistance	$\Theta_{\sf JA}$		8	9		°C/W
Thermal Resistance	$\Theta_{\sf JL}$		3	0		°C/W

SYMBOL	- CHARACTERISTICS: (T _A =25°C unless oth TEST CONDITIONS V _R =Rated V _{RRM}	TYP	MAX 0.50	UNITS mA
I _R	V _R =Rated V _{RRM} , T _A =100°C		10	mA
V_{F}	I _F =1.0A (CMSH1-20M)	0.47	0.50	V
VF	I _F =1.0A (CMSH1-40M)	0.48	0.50	V
V_{F}	I _F =1.0A (CMSH1-60M)	0.60	0.70	V
V_{F}	I _F =1.0A (CMSH1-100M)	0.76	0.85	V
CJ	V _R =4.0V, f=1.0MHz (CMSH1-20M)	42		pF
CJ	V _R =4.0V, f=1.0MHz (CMSH1-40M)	55		pF
CJ	V _R =4.0V, f=1.0MHz (CMSH1-60M)	43		pF
CJ	V _R =4.0V, f=1.0MHz (CMSH1-100M)	29		pF

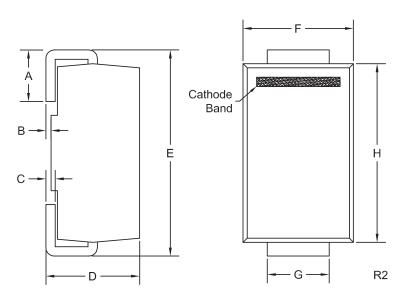
R7 (24-November 2015)

CMSH1-20M CMSH1-60M CMSH1-40M

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SMA CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE		
CMSH1-20M	CS20M		
CMSH1-40M	CS40M		
CMSH1-60M	CS60M		
CMSH1-100M	CS100M		

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	

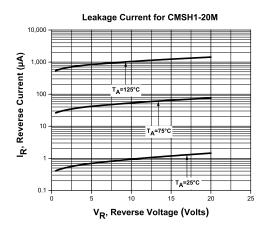
SMA (REV: R2)

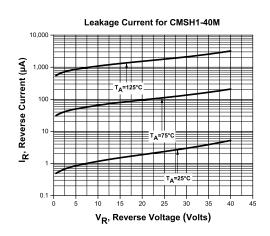
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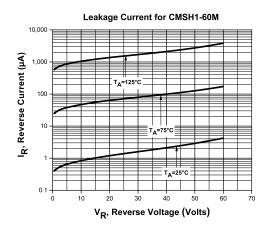
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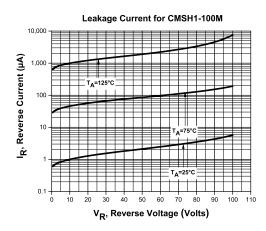


TYPICAL ELECTRICAL CHARACTERISTICS







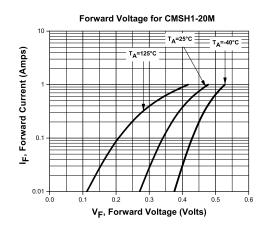


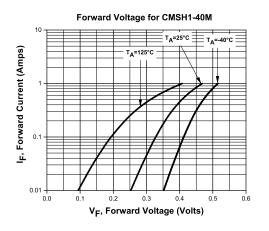
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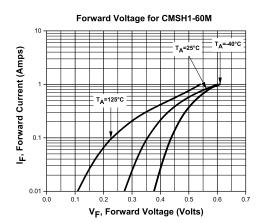
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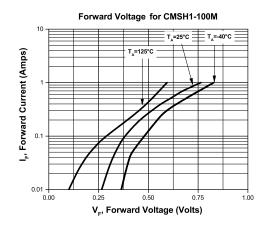


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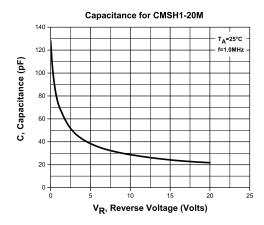


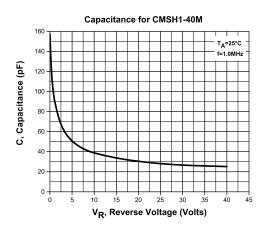
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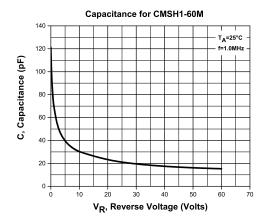
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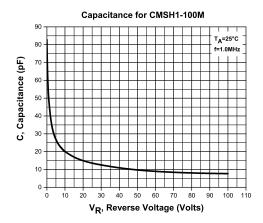


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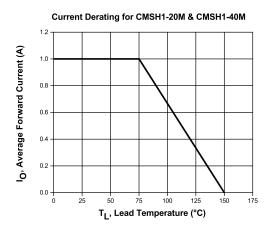


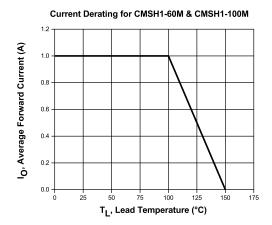
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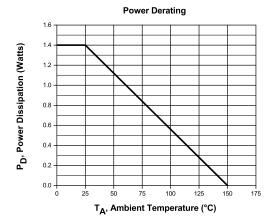
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TYPICAL ELECTRICAL CHARACTERISTICS







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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

- · 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

Corporate Headquarters & Customer Support Team

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