CMSH1-20M CMSH1-60M CMSH1-40M CMSH1-100M

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



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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	noted)	CMSH1	CMSH1	CMSH1	CMSH1	
•	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	70	V
Average Forward Current (T _L =75°C)	lo	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	IFSM	30			Α	
Operating and Storage Junction Temperature	T _J , T _{stg}		-65 to	+150		°C
Thermal Resistance	$\Theta_{. II}$		3	0		°C/W

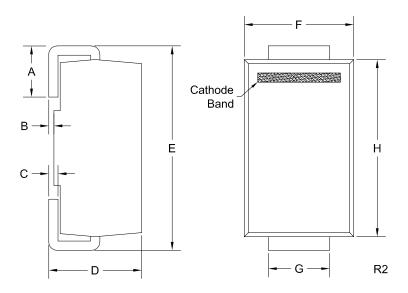
. CHARACTERISTICS: (T_{A} =25 $^{\circ}$ C unless other	rwise noted)		
TEST CONDITIONS	TYP	MAX	UNITS
V _R =Rated V _{RRM}		0.50	mA
V _R =Rated V _{RRM,} T _A =100°C		10	mA
I _F =1.0A (CMSH1-20M, -40M)		0.50	V
I _F =1.0A (CMSH1-60M)		0.70	V
I _F =1.0A (CMSH1-100M)		0.85	V
V _R =4.0V, f=1.0MHz (CMSH1-20M, -40M)	100		pF
V _R =4.0V, f=1.0MHz (CMSH1-60M)	80		pF
V _R =4.0V, f=1.0MHz (CMSH1-100M)	50		pF
	TEST CONDITIONS V_R =Rated V_{RRM} V_R =Rated V_{RRM} , T_A =100°C I_F =1.0A (CMSH1-20M, -40M) I_F =1.0A (CMSH1-60M) I_F =1.0A (CMSH1-100M) V_R =4.0V, f=1.0MHz (CMSH1-20M, -40M) V_R =4.0V, f=1.0MHz (CMSH1-60M)	$\begin{array}{c} V_R = & \text{Rated V}_{RRM} \\ V_R = & \text{Rated V}_{RRM}, T_A = & 100 ^{\circ}\text{C} \\ I_F = & 1.0\text{A (CMSH1-20M, -40M)} \\ I_F = & 1.0\text{A (CMSH1-60M)} \\ I_F = & 1.0\text{A (CMSH1-100M)} \\ V_R = & 4.0\text{V, f=1.0MHz (CMSH1-20M, -40M)} \\ V_R = & 4.0\text{V, f=1.0MHz (CMSH1-60M)} \\ \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

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



SERVICES

- · Bonded Inventory
- · Custom Electrical Screening
- Custom Electrical Characteristic Curves
- SPICE Models
- Custom Packaging
- Package Base Options
- Custom Device Development/Multi Discrete Modules (MDM™)
- · Bare Die Available for Hybrid Applications

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R6 (6-May 2015)