CMSH1-20ML CMSH1-40ML

SURFACE MOUNT SILICON LOW V_F SCHOTTKY RECTIFIERS 1.0 AMP, 20 AND 40 VOLT





www.centralsemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSH1-20ML series are surface mount silicon Schottky rectifiers designed for applications where extremely low forward voltage drop is required.

MARKING CODES: CMSH1-20ML: CS20ML

CMSH1-40ML: CS40ML

FEATURES:

- Extremely low forward voltage drop
- · High reliability

MAXIMUM RATINGS: (T _A =25°C unless otherwis	se noted)			
· //	SYMBOL	CMSH1-20ML	CMSH1-40ML	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	20	40	V
DC Blocking Voltage	V_{R}	20	40	V
RMS Reverse Voltage	V _{R(RMS)}	14	28	V
Average Forward Current	IO	1.0		Α
Peak Forward Surge Current, tp=8.3ms	I _{FSM}	30		Α
Operating and Storage Junction Temperature	T _J , T _{stg}	-65 to +150		°C
Thermal Resistance	$\Theta_{\sf JL}$	2	28	°C/W
Thermal Resistance	$\Theta_{\sf JA}$	88		°C/W
ELECTRICAL CHARACTERISTICS: (TA=25°C t	unless otherwise r	noted)		
SYMBOL TEST CONDITIONS		M	AX	UNITS
In Vp=Rated VppM		0	.5	mA

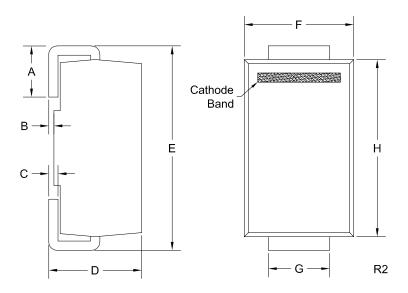
^I R	VR=Rated VRRM	0.5	mA
I_{R}	V_R = Rated V_{RRM} , T_C =100°C	20	mA
V_{F}	I _F =1.0A (CMSH1-20ML)	0.38	V
V_{F}	I _F =1.0A (CMSH1-40ML)	0.40	V

CMSH1-20ML CMSH1-40ML

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SMA CASE - MECHANICAL OUTLINE

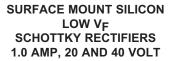


DEVICE	MARKING CODE	
CMSH1-20ML	CS20ML	
CMSH1-40ML	CS40ML	

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)

CMSH1-20ML CMSH1-40ML





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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R5 (6-May 2015)