

MARKING CODE: C14



## **DESCRIPTION:**

The Central Semiconductor CMMSH1-40 is a high current Schottky rectifier in a SOD-123F surface mount package suitable for design applications such as ac/dc, dc/dc converters, and reverse battery protection circuits in a variety of portable and battery powered products.

## FEATURES:

- Small size (58% smaller than the SMA package)
- 67% lower profile than SMA
- Greatly improved power dissipation per board area as compared to the SMA
- Low Forward Voltage
- High Current
- Thermally efficient Flat Lead package design.

MAXIMUM RATINGS: (T<sub>A</sub>=25°C unless otherwise noted)

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>	40	V
DC Blocking Voltage	V <sub>R</sub>	40	V
Average Forward Current (T <sub>L</sub> =110°C)	lo	1.0	А
Peak Forward Surge Current (8.3ms)	IFSM	20	А
Operating and Storage			
Junction Temperature	TJ,Tstg	-65 to +150	°C

## ELECTRICAL CHARACTERISTICS: (TA=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	MAX	UNITS
I <sub>R</sub>	V <sub>R</sub> =20V	150	μΑ
I <sub>R</sub>	V <sub>R</sub> =40V	500	μΑ
VF	I <sub>F</sub> =100mA	0.36	V
VF	I <sub>F</sub> =1.0A	0.50	V
VF	I <sub>F</sub> =3.0A	0.80	V

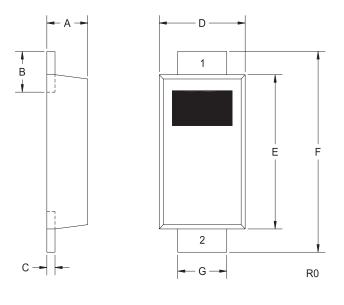
R0 (29-January 2004)



CMMSH1-40

PRELIMINARY SURFACE MOUNT SILICON SCHOTTKY RECTIFIER 1.0 AMP, 40 VOLTS

## SOD-123F CASE - MECHANICAL OUTLINE



LEAD CODE:
1) CATHODE
2) ANODE

DIMENSIONS						
	INCHES		MILLIMETERS			
SYMBOL	MIN	MAX	MIN	MAX		
А	0.028	0.031	0.72	0.78		
В	0.028		0.70			
С	0.004	0.008	0.10	0.20		
D	0.059	0.067	1.50	1.70		
E	0.102	0.110	2.60	2.80		
F	0.134	0.142	3.40	3.60		
G	0.034	0.037	0.87	0.93		
SOD-123F (REV:R0)						

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