

PRELIMINARY

CMMSH1-40

**SURFACE MOUNT SILICON
SCHOTTKY RECTIFIER
1.0 AMP, 40 VOLTS**



SOD-123F CASE

MARKING CODE: C14

Central™
Semiconductor Corp.

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: ($T_A=25^\circ\text{C}$ unless otherwise noted)

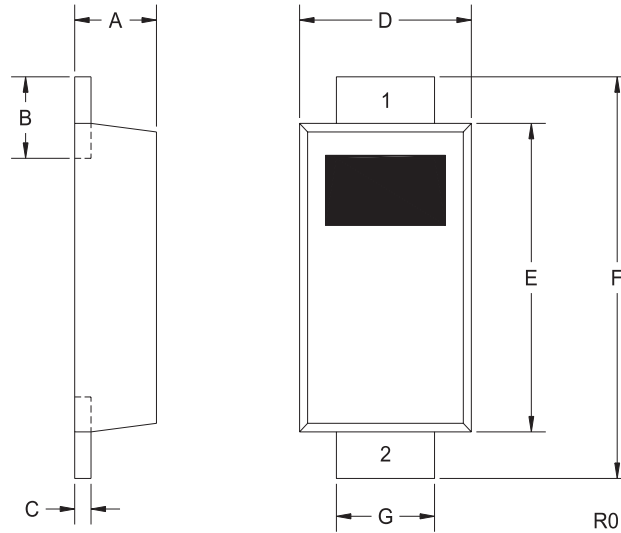
	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	40	V
DC Blocking Voltage	V_R	40	V
Average Forward Current ($T_L=110^\circ\text{C}$)	I_O	1.0	A
Peak Forward Surge Current (8.3ms)	I_{FSM}	20	A
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ\text{C}$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MAX	UNITS
I_R	$V_R=20\text{V}$	150	μA
I_R	$V_R=40\text{V}$	500	μA
V_F	$I_F=100\text{mA}$	0.36	V
V_F	$I_F=1.0\text{A}$	0.50	V
V_F	$I_F=3.0\text{A}$	0.80	V

R0 (29-January 2004)

SOD-123F CASE - MECHANICAL OUTLINE



LEAD CODE:
1) CATHODE
2) ANODE

DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.028	0.031	0.72	0.78
B	0.028		0.70	
C	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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