

**CMSH3-40FL**  
**SURFACE MOUNT**  
**SILICON SCHOTTKY RECTIFIER**  
**3 AMP, 40 VOLTS**



[www.centrasemi.com](http://www.centrasemi.com)

**DESCRIPTION:**

The CENTRAL SEMICONDUCTOR CMSH3-40FL is an extremely efficient silicon Schottky rectifier with low total conduction losses packaged in the low profile SMBFL case. The SMBFL fits on existing industry standard SMB mounting pad layouts.

**MARKING CODE: CS340FL**

**FEATURES:**

- High current capability (3.0A)
- Low leakage current (100µA MAX @ 40V)
- Low forward voltage (0.5V MAX @ 3.0A)
- Low package profile (1.0mm)
- Flammability classification UL94V-0

**APPLICATIONS:**

- Reverse polarity protection
- Voltage clamping
- DC-DC output rectification
- Power management

**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
RMS Reverse Voltage	V <sub>R(RMS)</sub>	28	V
Average Forward Current (T <sub>L</sub> =125°C)	I <sub>O</sub>	3.0	A
Peak Forward Surge Current, tp=8.3ms	I <sub>FSM</sub>	80	A
Operating and Storage Junction Temperature	T <sub>J</sub> , T <sub>stg</sub>	-65 to +150	°C
Thermal Resistance	θ <sub>JL</sub>	15	°C/W

**ELECTRICAL CHARACTERISTICS:** (T<sub>A</sub>=25°C unless otherwise noted)

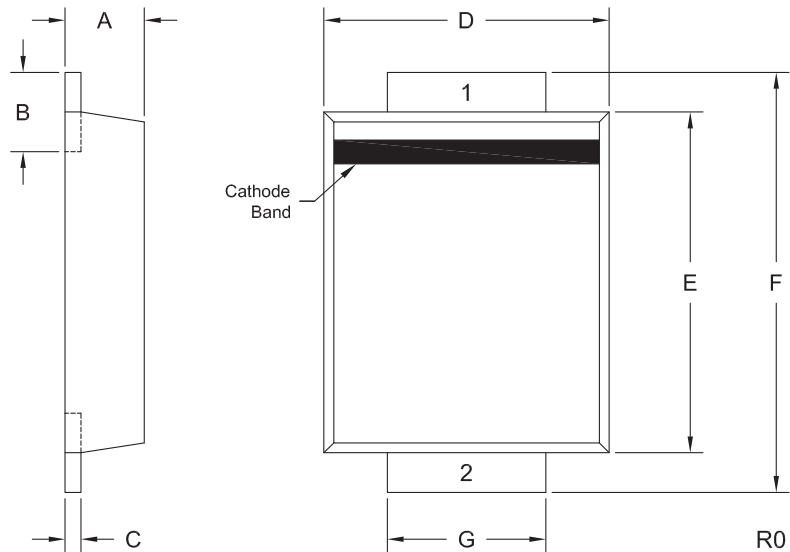
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I <sub>R</sub>	V <sub>R</sub> =40V	15	100	µA
V <sub>F</sub>	I <sub>F</sub> =3.0A	0.46	0.50	V
C <sub>J</sub>	V <sub>R</sub> =4.0V, f=1.0MHz	150		pF

R1 (27-June 2012)

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**SMBFL CASE - MECHANICAL OUTLINE**



**LEAD CODE:**

- 1) Cathode
- 2) Anode

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<b>DIMENSIONS</b>				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.035	0.044	0.90	1.10
B	0.031	0.048	0.80	1.20
C	0.006	0.010	0.15	0.25
D	0.137	0.146	3.50	3.70
E	0.161	0.178	4.10	4.50
F	0.200	0.217	5.10	5.50
G	0.074	0.083	1.90	2.10

SMBFL (REV: R0)

R1 (27-June 2012)