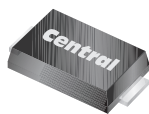


CMSH2-40FL

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



SMAFL CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSH2-40FL is an extremely efficient silicon Schottky rectifier with low total conduction losses packaged in the low profile SMAFL case. The SMAFL fits on existing industry standard SMA mounting pad layouts.

MARKING CODE: C240FL

APPLICATIONS:

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

FEATURES:

- High current capability (2.0A)
- Low leakage current (100 μ A MAX @ 40V)
- Low forward voltage (0.5V MAX @ 2.0A)
- Low package profile (1.0mm)
- Flammability classification UL94V-0

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
RMS Reverse Voltage	$V_{R(RMS)}$	28	V
Average Forward Current ($T_L=125^{\circ}\text{C}$)	I_O	2.0	A
Peak Forward Surge Current, $t_p=8.3\text{ms}$	I_{FSM}	50	A
Operating and Storage Junction Temperature	T_J, T_{stg}	-65 to +150	$^{\circ}\text{C}$
Thermal Resistance	θ_{JL}	20	$^{\circ}\text{C/W}$

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

SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_R	$V_R=40\text{V}$	30	100	μA
V_F	$I_F=2.0\text{A}$	0.38	0.50	V
C_J	$V_R=4.0\text{V}, f=1.0\text{MHz}$	100		pF

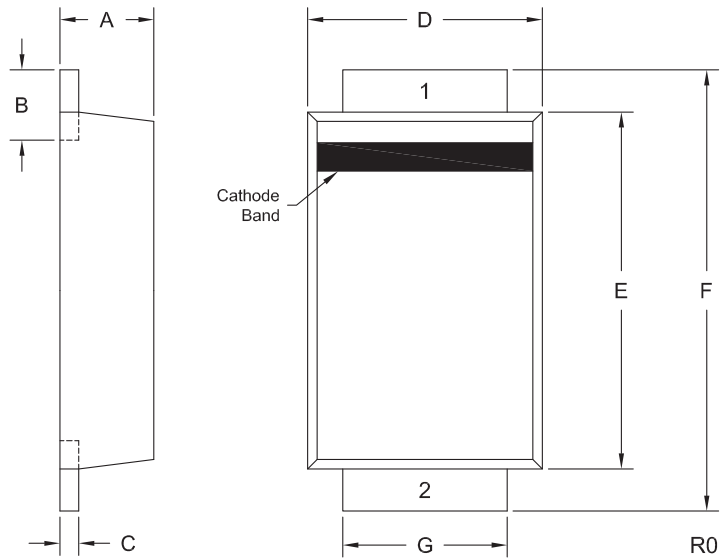
R2 (25-June 2012)

CMSH2-40FL

SURFACE MOUNT
SILICON SCHOTTKY RECTIFIER
2 AMP, 40 VOLTS



SMAFL CASE - MECHANICAL OUTLINE



LEAD CODE:

- 1) Cathode
- 2) Anode

MARKING CODE: C240FL

DIMENSIONS				
SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.035	0.044	0.90	1.10
B	0.021	0.038	0.55	0.95
C	0.006	0.010	0.15	0.25
D	0.094	0.103	2.40	2.60
E	0.145	0.154	3.70	3.90
F	0.177	0.193	4.50	4.90
G	0.065	0.073	1.65	1.85

SMAFL (REV: R0)

R2 (25-June 2012)