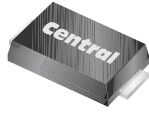


CMSH3-100MFL
CMSH3-150MFL
CMSH3-200MFL

**SURFACE MOUNT SILICON
SCHOTTKY RECTIFIERS
3.0 AMP, 100 THRU 200 VOLT**



SMAFL CASE



www.centrasemi.com

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMSH3-100MFL, CMSH3-150MFL and CMSH3-200MFL are extremely efficient, high voltage, silicon Schottky rectifiers with low total conduction losses and packaged in the low profile SMAFL surface mount case. The SMAFL fits on the existing industry standard SMA mounting pad layouts.

MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE

FEATURES:

- High current capability (3.0A)
- Low leakage current
- Low forward voltage
- Low package profile (1.0mm)
- Flammability classification UL94V-0

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

	SYMBOL	CMSH3 -100MFL	CMSH3 -150MFL	CMSH3 -200MFL	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}	100	150	200	V
DC Blocking Voltage	V_R	100	150	200	V
RMS Reverse Voltage	$V_R(\text{RMS})$	70	105	140	V
Average Forward Current ($T_L=110^{\circ}\text{C}$)	I_O		3.0		A
Peak Forward Surge Current, $t_p=8.3\text{ms}$	I_{FSM}		80		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	$V_R=\text{Rated } V_{RRM}$		50	μA
I_R	$V_R=\text{Rated } V_{RRM}, T_A=100^{\circ}\text{C}$		20	mA
V_F	$I_F=3.0\text{A}$ (CMSH3-100MFL)		0.80	V
V_F	$I_F=3.0\text{A}$ (CMSH3-150MFL, -200MFL)		0.90	V
C_J	$V_R=4.0\text{V}, f=1.0\text{MHz}$ (CMSH3-100MFL)	110		pF
C_J	$V_R=4.0\text{V}, f=1.0\text{MHz}$ (CMSH3-150MFL)	90		pF
C_J	$V_R=4.0\text{V}, f=1.0\text{MHz}$ (CMSH3-200MFL)	70		pF

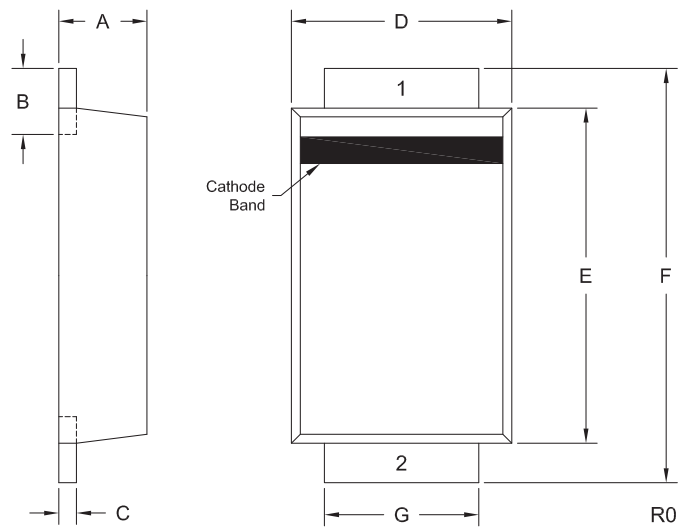
R1 (4-February 2013)

CM SH3-100MFL
CM SH3-150MFL
CM SH3-200MFL

SURFACE MOUNT SILICON
SCHOTTKY RECTIFIERS
3.0 AMP, 100 THRU 200 VOLT



SMAFL CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE
CM SH3-100MFL	CS310MFL
CM SH3-150MFL	CS315MFL
CM SH3-200MFL	CS320MFL

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)

LEAD CODE:

- 1) Cathode
- 2) Anode

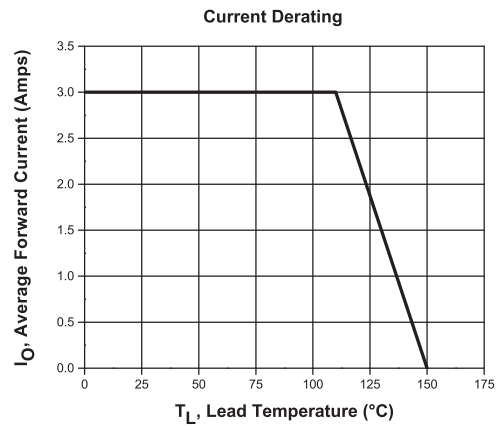
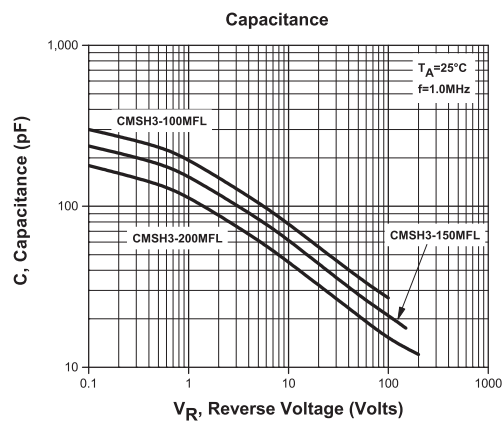
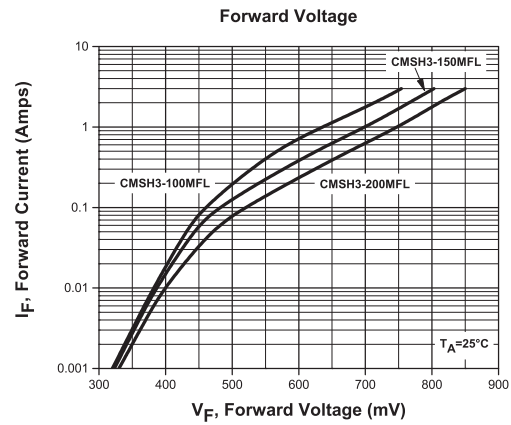
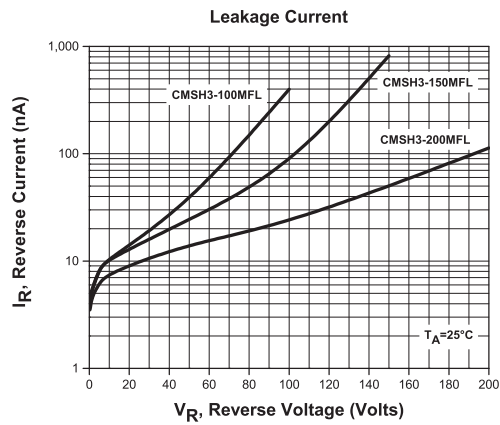
R1 (4-February 2013)

CMH3-100MFL
CMH3-150MFL
CMH3-200MFL

SURFACE MOUNT SILICON
SCHOTTKY RECTIFIERS
3.0 AMP, 100 THRU 200 VOLT



TYPICAL ELECTRICAL CHARACTERISTICS



R1 (4-February 2013)