

CMR2-04MFL CMR2-08MFL
 CMR2-06MFL CMR2-10MFL

**SURFACE MOUNT SILICON
 GENERAL PURPOSE RECTIFIERS
 2.0 AMP, 400 THRU 1000 VOLT**



www.centralemi.com



SMAFL CASE

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMR2-04MFL series 2.0 Amp surface mount silicon rectifier, in the low profile SMAFL case, is designed for use in all types of commercial, industrial, entertainment, computer, and automotive applications where small size is required.

MARKING CODE: SEE MARKING CODE TABLE ON FOLLOWING PAGE

FEATURES:

- High surge current capability (70A)
- Low leakage current (1.0 μ A)
- Low package profile (1.0mm)
- Flammability classification UL94V-0

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

	SYMBOL	CMR2				UNITS
		-04MFL	-06MFL	-08MFL	-10MFL	
Peak Repetitive Reverse Voltage	V_{RRM}	400	600	800	1000	V
DC Blocking Voltage	V_R	400	600	800	1000	V
RMS Reverse Voltage	$V_{R(RMS)}$	280	420	560	700	V
Average Forward Current ($T_L=120^\circ\text{C}$)	I_O		2.0			A
Peak Forward Surge Current, $t_p=8.3\text{ms}$	I_{FSM}		70			A
Operating and Storage Junction Temperature	T_J, T_{stg}		-65 to +150			$^\circ\text{C}$
Thermal Resistance	θ_{JL}		30			$^\circ\text{C/W}$

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

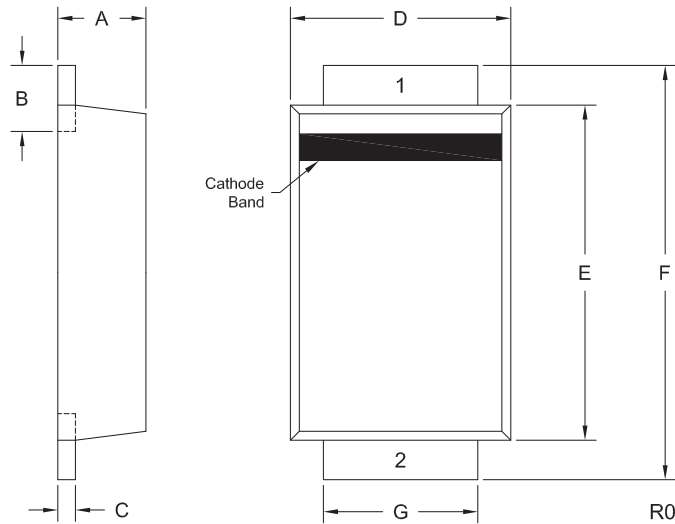
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_R	V_R =Rated V_{RRM}		1.0	μA
I_R	V_R =Rated V_{RRM} , $T_A=125^\circ\text{C}$		50	μA
V_F	$I_F=2.0\text{A}$		1.1	V
C_J	$V_R=4.0\text{V}$, $f=1.0\text{MHz}$	18		pF

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SMAFL CASE - MECHANICAL OUTLINE



DEVICE	MARKING CODE
CMR2-04MFL	C204MFL
CMR2-06MFL	C206MFL
CMR2-08MFL	C208MFL
CMR2-10MFL	C210MFL

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

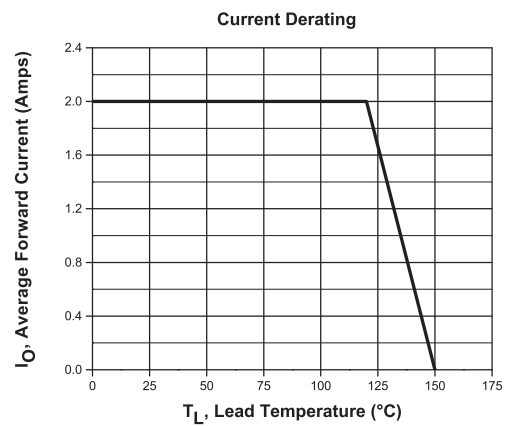
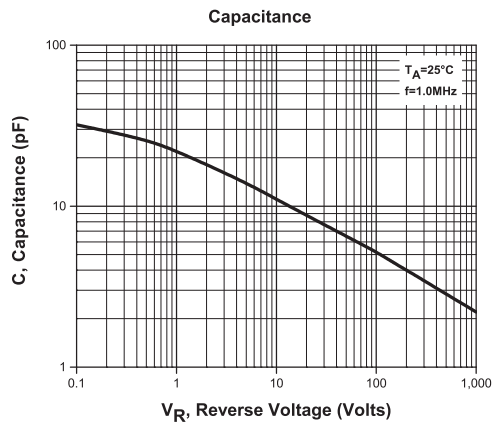
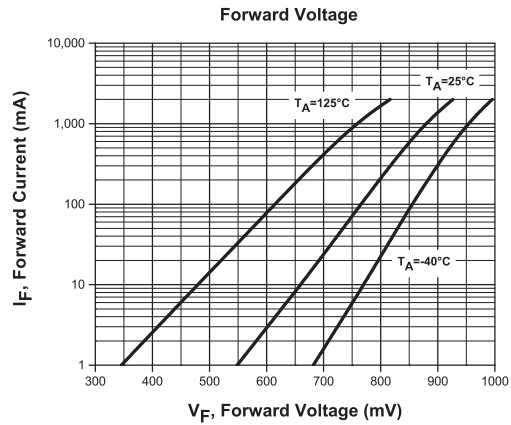
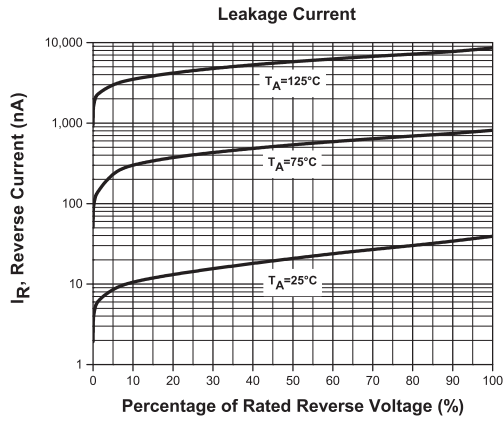
R1 (26-August 2013)

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TYPICAL ELECTRICAL CHARACTERISTICS



R1 (26-August 2013)