

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

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



SMAFL CASE



www.centrasemi.com

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)

MAXIMUM RATINGS: (T _A =25°C unless otherwise noted)		CMR2				
	SYMBOL	-04MFL	-06MFL	-08MFL	-10MFL	UNITS
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°C)	I _O		2.0			A
Peak Forward Surge Current, tp=8.3ms	I _{FSM}		70			A
Operating and Storage Junction Temperature	T _J , T _{stg}		-65 to +150			°C
Thermal Resistance	Θ _{JL}		30			°C/W

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

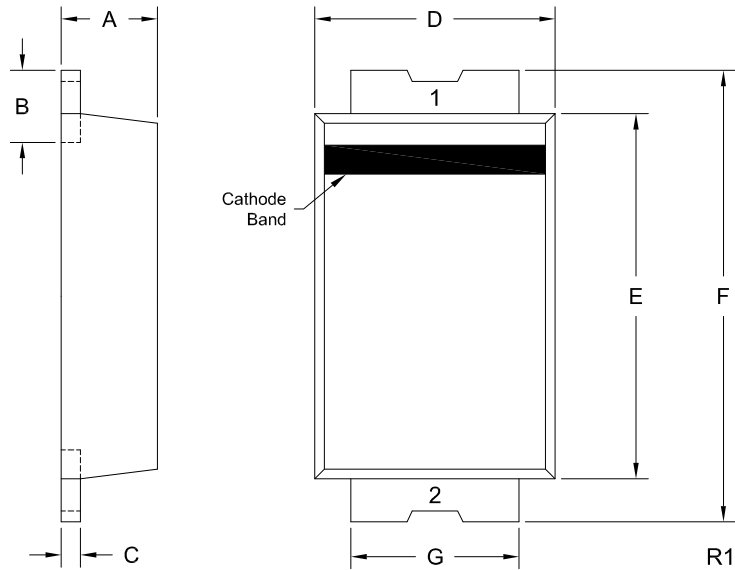
SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I_R	$V_R=\text{Rated } V_{RRM}$		1.0	μA
I_R	$V_R=\text{Rated } V_{RRM}, T_A=125^{\circ}\text{C}$		50	μA
V_F	$I_F=2.0\text{A}$		1.1	V
C_J	$V_R=4.0\text{V}, f=1.0\text{MHz}$	18		pF

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SMAFL CASE - MECHANICAL OUTLINE



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

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: R1)

LEAD CODE:

- 1) Cathode
- 2) Anode

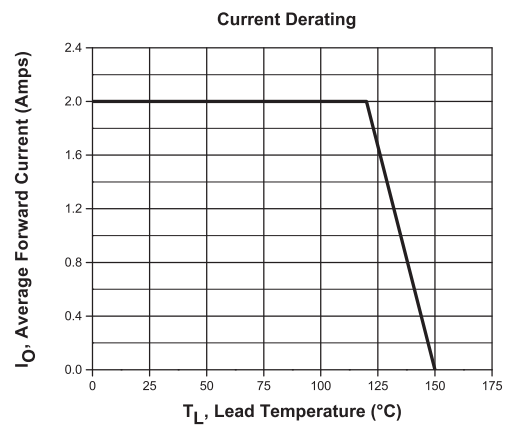
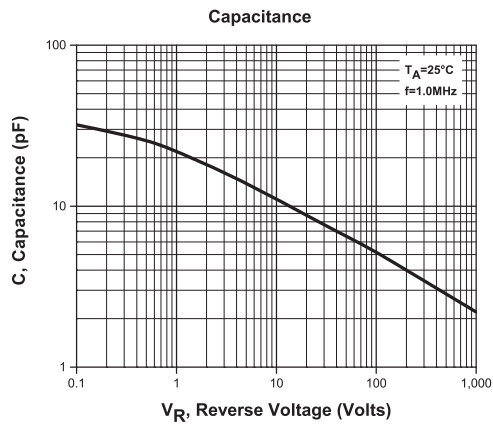
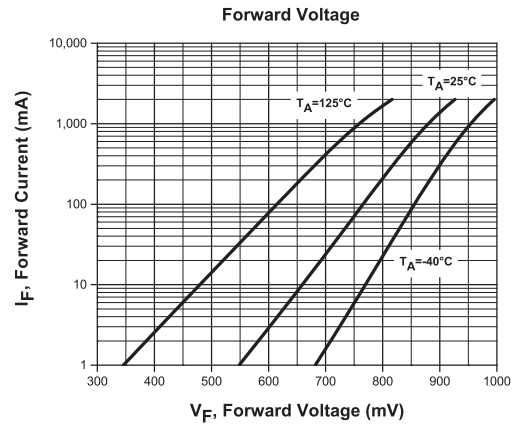
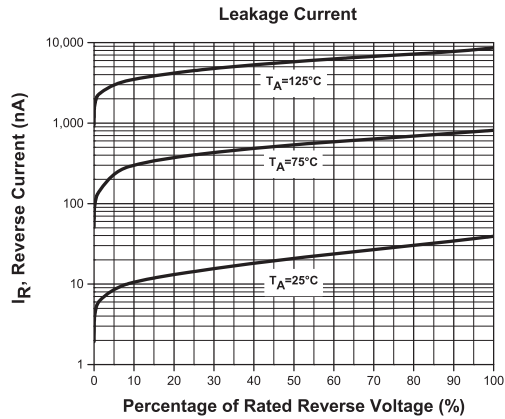
R2 (28-June 2021)

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TYPICAL ELECTRICAL CHARACTERISTICS



R2 (28-June 2021)

OUTSTANDING SUPPORT AND SUPERIOR SERVICES



PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options
- Custom bar coding for shipments
- Custom product packing

DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2nd day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities
- Special wafer diffusions
- PbSn plating options
- Package details
- Application notes
- Application and design sample kits
- Custom product and package development

REQUESTING PRODUCT PLATING

1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

CONTACT US

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