

## CMR1U-02FL CMR1U-04FL CMR1U-06FL

### 1.0A, 200V, 400V and 600V Ultra Fast Recovery Rectifiers in the SMBFL package



Central Semiconductor's CMR1U-02FL series devices are 1.0 amp, surface mount, ultra fast recovery silicon rectifiers packaged in the low profile SMBFL case. The SMBFL fits on existing industry standard SMB mounting pad layouts.

#### Features:

- Ultra fast recovery time
- Low capacitance
- High reverse voltage capability
- Low package profile

#### Applications:

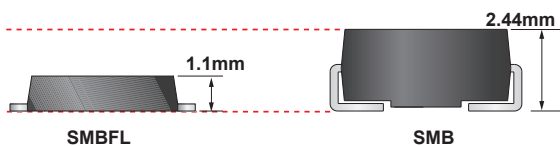
- DC-DC converters
- Flyback diode
- Freewheeling diode

#### Benefits:

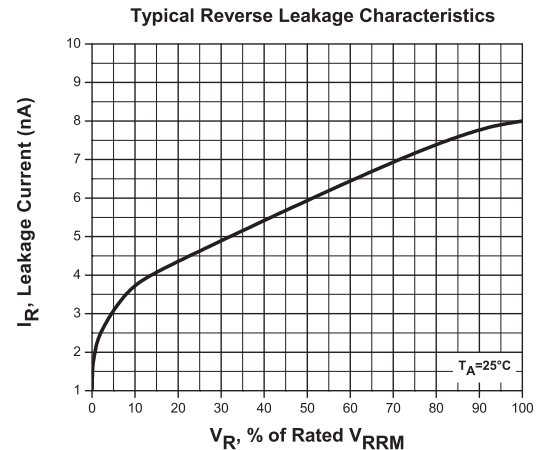
- Minimal switching losses
- Fits standard SMB mounting pads

#### Package Profile Comparison:

The SMBFL has a **58%** lower profile than the SMB



#### Typical Electrical Characteristic



#### Samples



To request samples visit:  
[www.centrasemi.com/info/CMR1U-02FLSeries](http://www.centrasemi.com/info/CMR1U-02FLSeries)

#### Weblink:

Use QR reader for direct link to product web page, or use: [www.centrasemi.com/info/CMR1U-02FLSeries](http://www.centrasemi.com/info/CMR1U-02FLSeries)

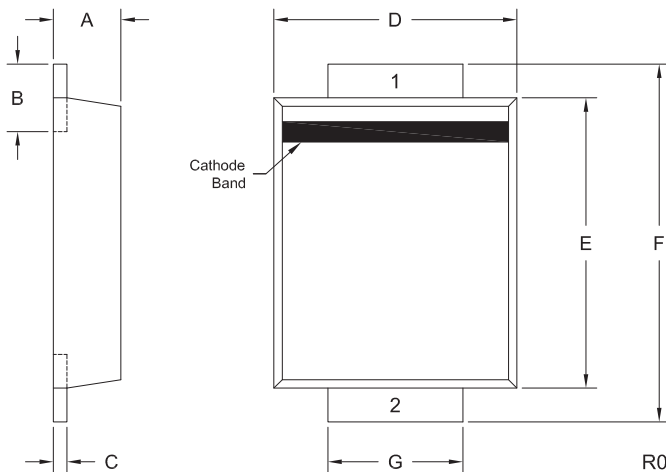


Type No.	Maximum Ratings ( $T_A = 25^\circ\text{C}$ unless otherwise noted)				Electrical Characteristics ( $T_A = 25^\circ\text{C}$ unless otherwise noted)					
	$V_{RRM}$ (V) MAX	$I_O$ $T_L = 120^\circ\text{C}$ (A) MAX	$T_J, T_{stg}$ ( $^\circ\text{C}$ ) MAX	$I_{FSM}$ (A) MAX	$V_F$ (V) MAX	@ $I_F$ (A)	$I_R$ ( $\mu\text{A}$ ) MAX	@ $V_R$ (V)	$C_J$ (pF) TYP	$t_{rr}$ (ns) MAX
CMR1U-02FL	200	1.0	-55 to +150	30	1.0	1.0	1.0	200	18	50
CMR1U-04FL	400	1.0	-55 to +150	30	1.3	1.0	1.0	400	10	50
CMR1U-06FL	600	1.0	-55 to +150	30	1.7	1.0	1.0	600	8.0	100

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## Mechanical Drawing - SMBFL



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)

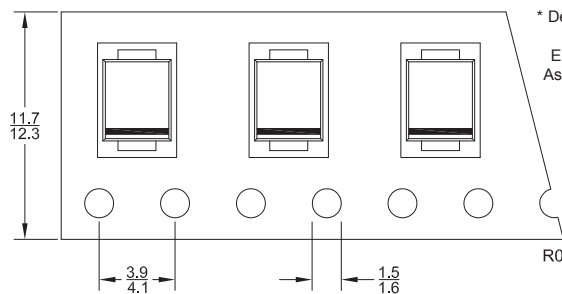
### LEAD CODE:

- 1) Cathode
- 2) Anode

Device	Marking Codes
CMR1U-02FL	CU02FL
CMR1U-04FL	CU04FL
CMR1U-06FL	CU06FL

## Tape Dimensions and Orientation (Dimensions in mm)

Tape Width: 12mm



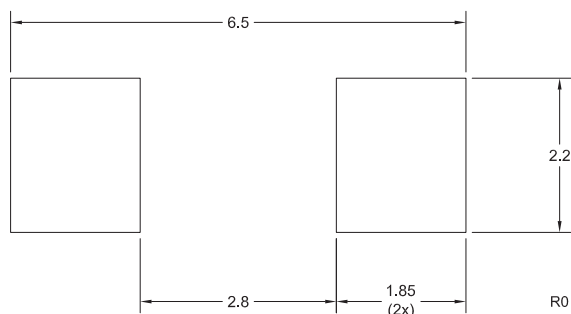
\* Devices are taped in accordance with Electronic Industries Association Standard EIA-481-D

← Direction of Unreeling

## Packaging Base / Ordering Information

Reel Size	Quantity	Central Item No.
13"	5,000	CMR1U-02FL TR
		CMR1U-04FL TR
		CMR1U-06FL TR

## Mounting Pad (Dimensions in mm)



## Literature



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Sample devices available upon request. To order samples visit: [www.centrasemi.com/info/CMR1U-02FLSeries](http://www.centrasemi.com/info/CMR1U-02FLSeries)



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PB CMR1U-02FL Series