

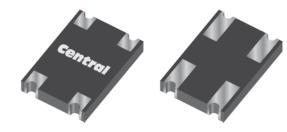
CBRDFA4-100 4A, 1000V Bridge Rectifier in the BR DFN-A package



Rethink the Possibilities[™]

Discretes do Matter™

CBRDFA4-100 4A, 1000V Bridge Rectifier in the BR DFN-A package



Top View

Bottom View

BR DFN-A





PROPRIETARY INFORMATION: Property of Central Semiconductor Corp. Do not copy, share, or disclose to any third party without express written permission of a company officer.

BRIDGE

New CBRDFA4-100

FEATURES:

- High 4.0A Current Rating
- Low V_F Diodes (1.0V MAX @ I_F=4.0A)

MAXIMUM RATINGS: (T_A=25°C unless otherwise noted)

	SYMBOL		UNITS	
Peak Repetitive Reverse Voltage	V _{RRM}	1000	V	
DC Blocking Voltage	V _R	1000	V	
Average Forward Current (T _C =112°C)	Ι _Ο	4.0	А	
Peak Forward Surge Current (8.3ms)	I _{FSM}	150	А	
Operating and Storage Junction Temperature	T _J , T _{stg}	-55 to +175	°C	

ELECTRICAL CHARACTERISTICS PER DIODE: (T_A=25°C unless otherwise noted)

SYMBOL	TEST CONDITIONS	TYP	MAX	UNITS
I _R	V _R =1000V		5.0	μA
V _F	I _F =4.0A	0.95	1.0	V
CJ	V _R =4.0V, f=1.0MHz	45		pF

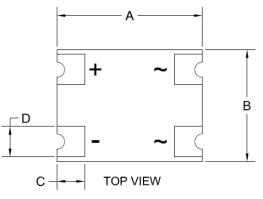




4A, 1000V Bridge Rectifier

New CBRDFA4-100





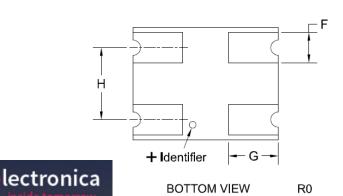


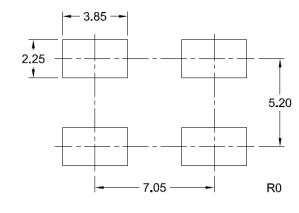
DIMENSIONS							
	INCHES		MILLIMETERS				
SYMBOL	MIN	MAX	MIN	MAX			
A	0.409	0.417	10.40	10.60			
В	0.315	0.323	8.00	8.20			
С	0.073	0.085	1.85	2.15			
D	0.083	0.091	2.10	2.30			
E	0.049	0.061	1.25	1.55			
F	0.083	0.091	2.10	2.30			
G	0.138	0.146	3.50	3.70			
Н	0.201	0.209	5.10	5.30			
Н	0.201		5.10 FN-A (R	5.30 FV [.] R			

BR DFN-A (REV: R0)

SUGGESTED MOUNTING PADS (Dimensions in mm)

MARKING CODE: BR4100







PROPRIETARY INFORMATION: Property of Central Semiconductor Corp. Do not copy, share, or disclose to any third party without express written permission of a company officer.

BR DFN-A Mechanical Outline

4A, 1000V Bridge Rectifier

New CBRDFA4-100

Application Examples

Example 1





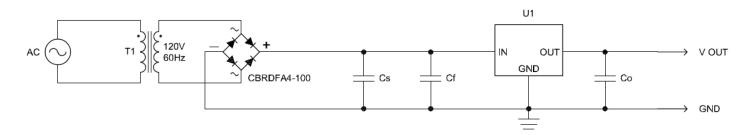
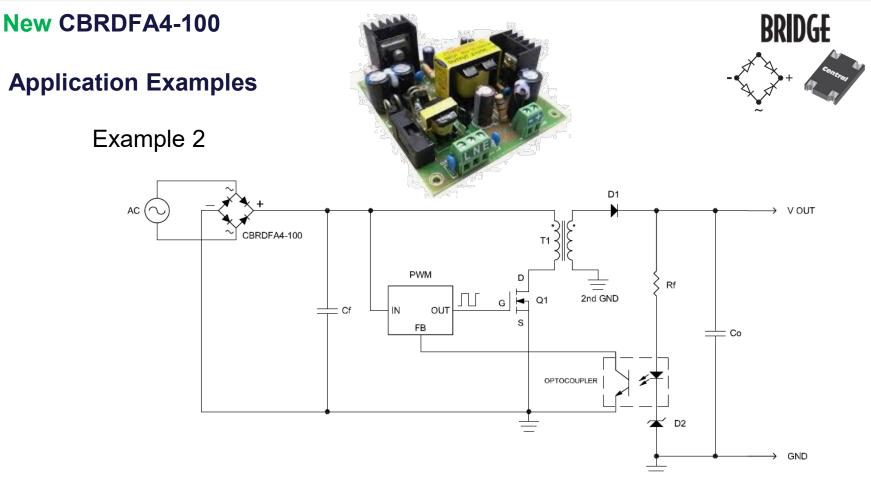


Figure 1. AC/DC Linear Regulator: The CBRDFA4-100 can provide AC to DC voltage rectification for linear regulation in any high power adapter or supply. AC voltage is converted to DC voltage and processed by a smoothing capacitor, where it then powers a linear regulator, yielding a flat DC output.







electronica

Figure 2. AC/DC Switched-Mode Power Supply: The CBRDFA4-100 provides a rectified DC signal to a PWM controlled MOSFET. The MOSFET acts as a switch, passing pulses of the signal through a transformer to a half-wave rectifier, which then converts the pulsed signal to DC. This DC signal is then used in a feedback loop with an optocoupler to power the PWM.



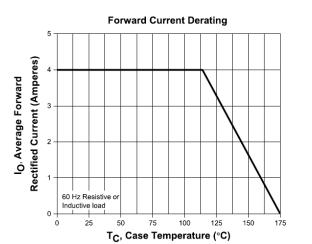
4A, 1000V Bridge Rectifier

New CBRDFA4-100

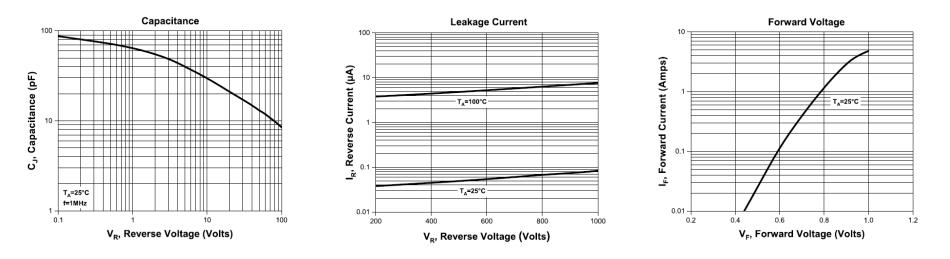
Electrical curves

BRIDGE





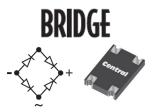
Maximum Non-Repetitive Peak Forward Surge Current





PROPRIETARY INFORMATION: Property of Central Semiconductor Corp. Do not copy, share, or disclose to any third party without express written permission of a company officer.

New CBRDFA4-100

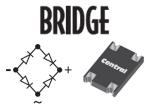


- Standard Packing Base: 3,000 on 7" Tape and Reel
- Inventory: 33,000 Tape and Reel in stock
- Distribution inventory: POs in process
 - Digi-Key, Mouser, Future
- Social media, ads, press release in process
- Available documents:
 - Datasheet
 - Product Brief









For further information, please contact your Central Sales representation.



www.centralsemi.com Tel: 631.435.1110

Superior Service is our passion



