

# Circuito Retificador

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Borges

# Fontes CC



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For E746



For V8K10



For V3



For KGP0



For V8



For 6101



# Fontes CC



For E746



For V8K3D



For V3



For KGP0



For V8



For 6101



Fonte CC tem como característica principal fornecer uma **tensão de valor constante**.

✓ Não necessitam de energia de alimentação, pilha e bateria

✓ Necessitam de alimentação de uma rede elétrica, carregador de celular, fonte de computador, fonte interna de uma tv etc

Fonte CC, que necessitam de alimentação de uma rede elétrica.

- As fontes CC dessa natureza possuem basicamente as etapas de:
  - Retificação
  - Filtragem
  - Regulação

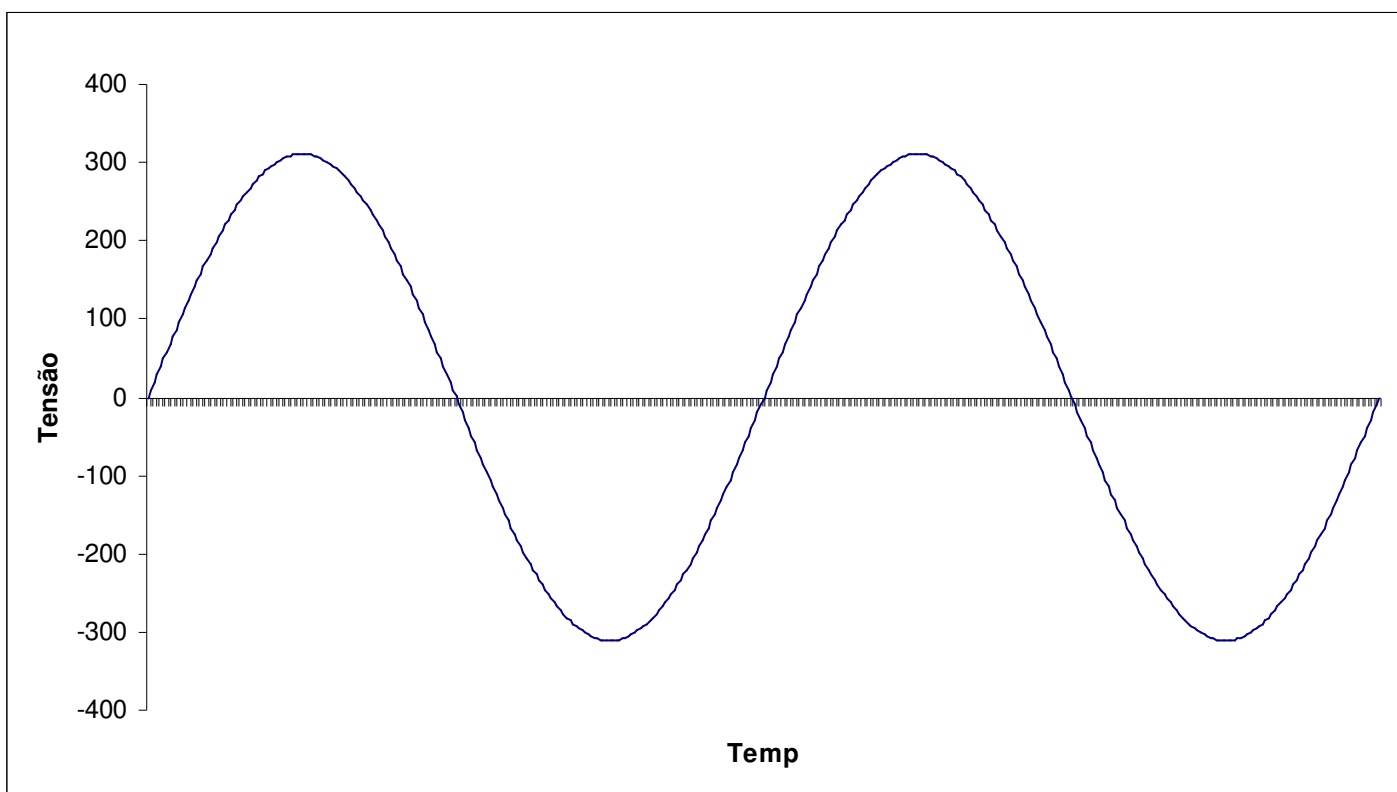
# Circuitos Retificadores

A função do circuitos retificadores é transformar tensão alternada, fornecida pelas concessionárias.

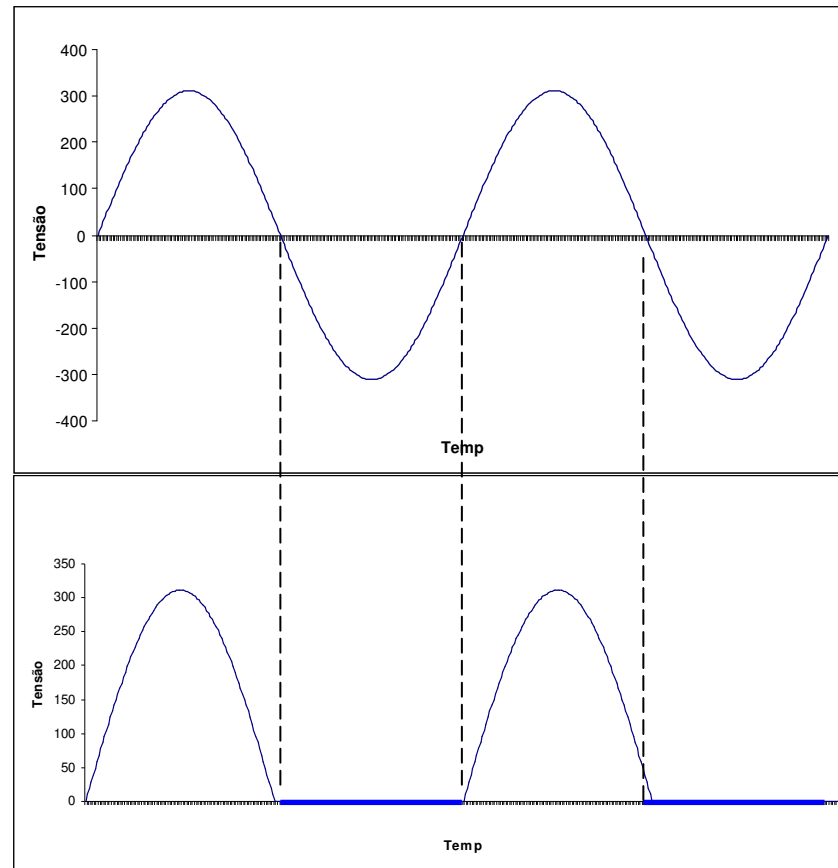
Em uma tensão de **única polaridade**, porém ainda de valor variável.



# Tensão alternada



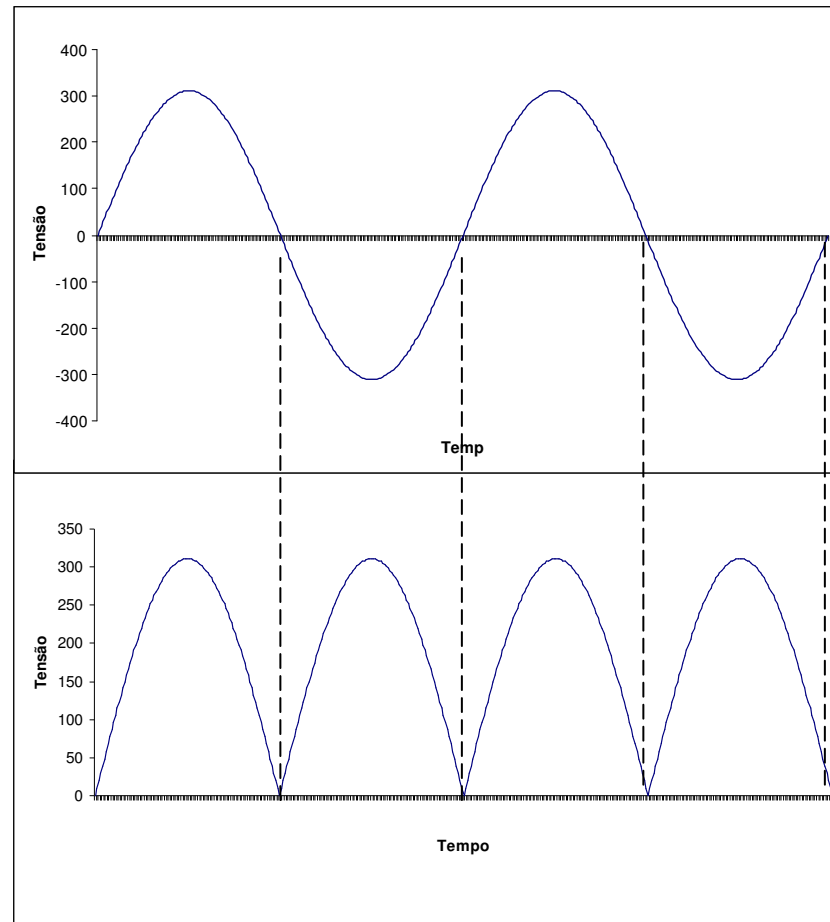
# Retificação de meia onda



← Entrada

← Saída

# Retificação Onda completa

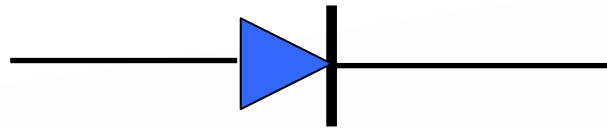


← Entrada

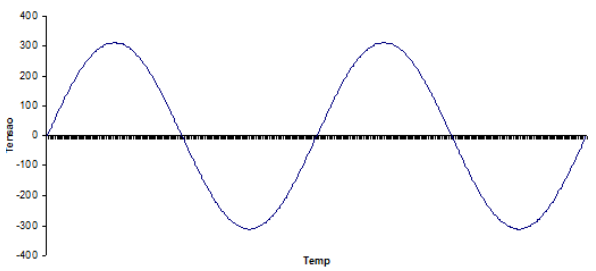
← Saída

# Diodo

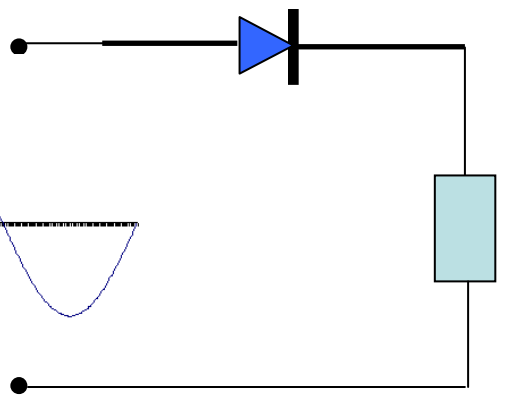
Conduz corrente em um único sentido



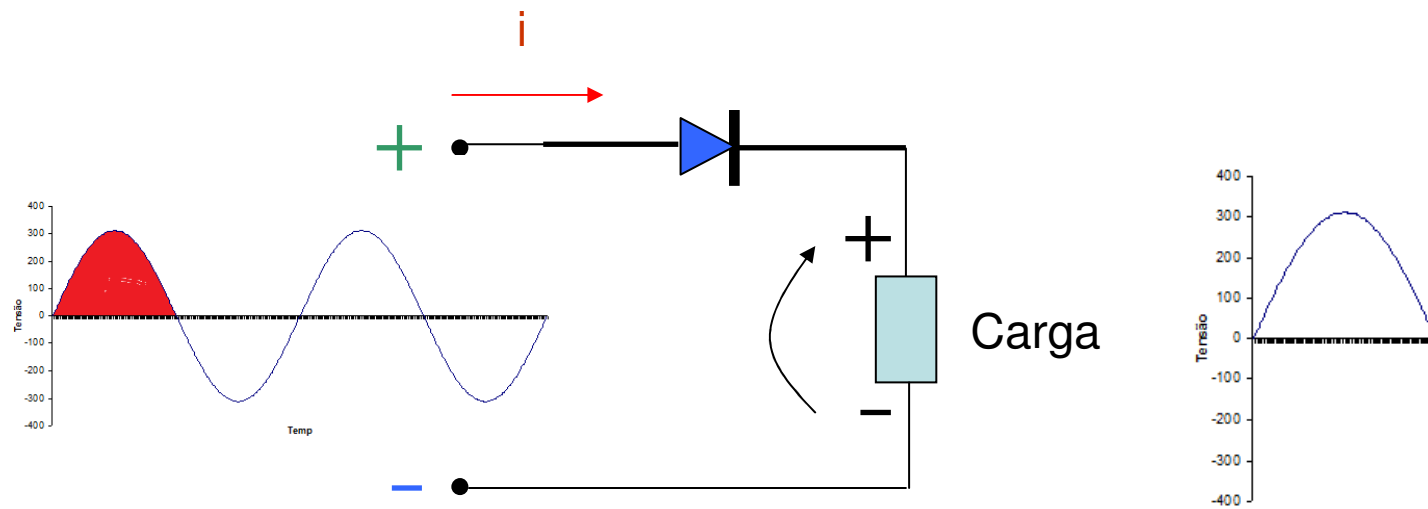
Tensione



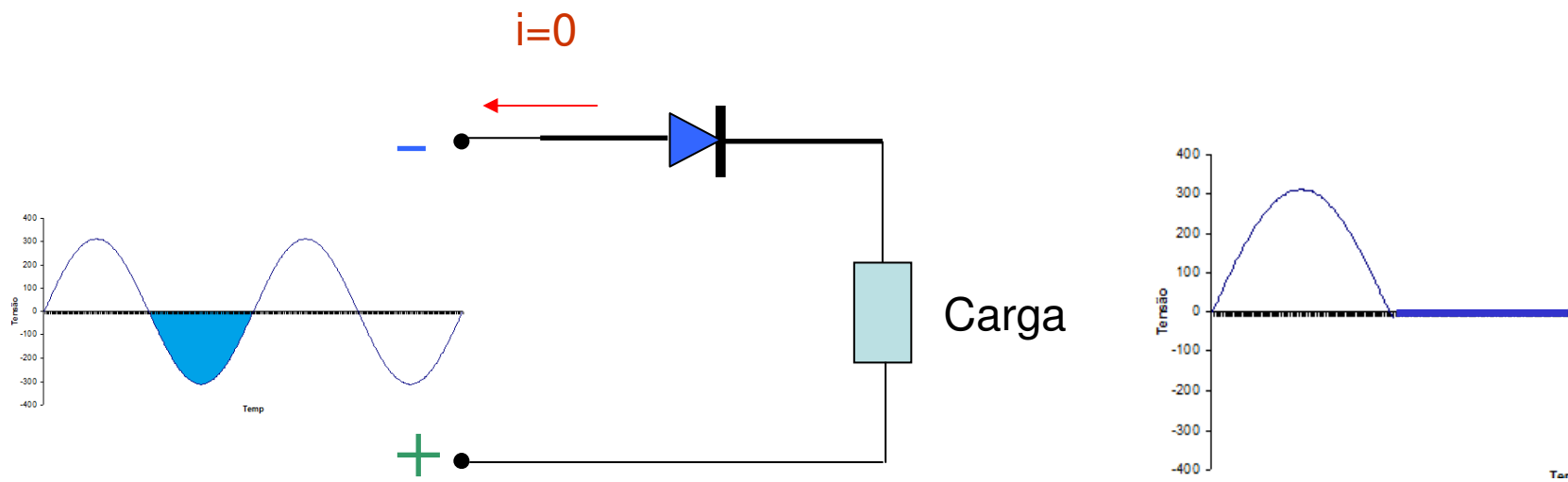
Temp



Carga

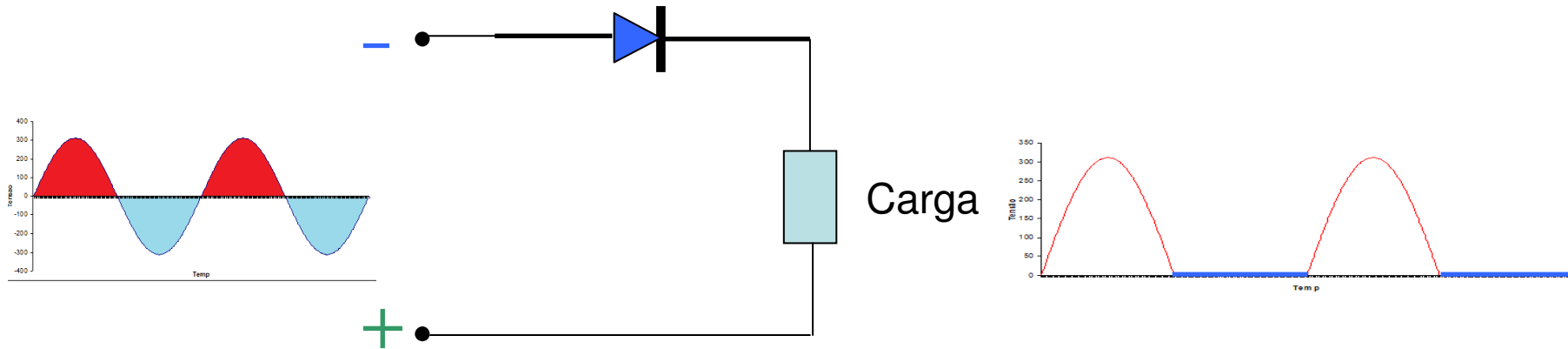


O diodo conduz e a tensão da entrada passa para a saída

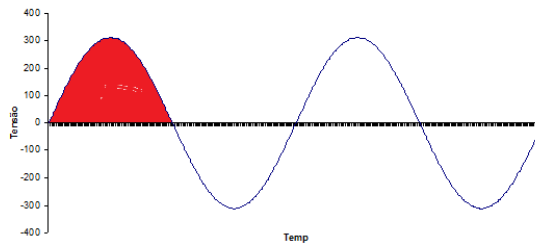
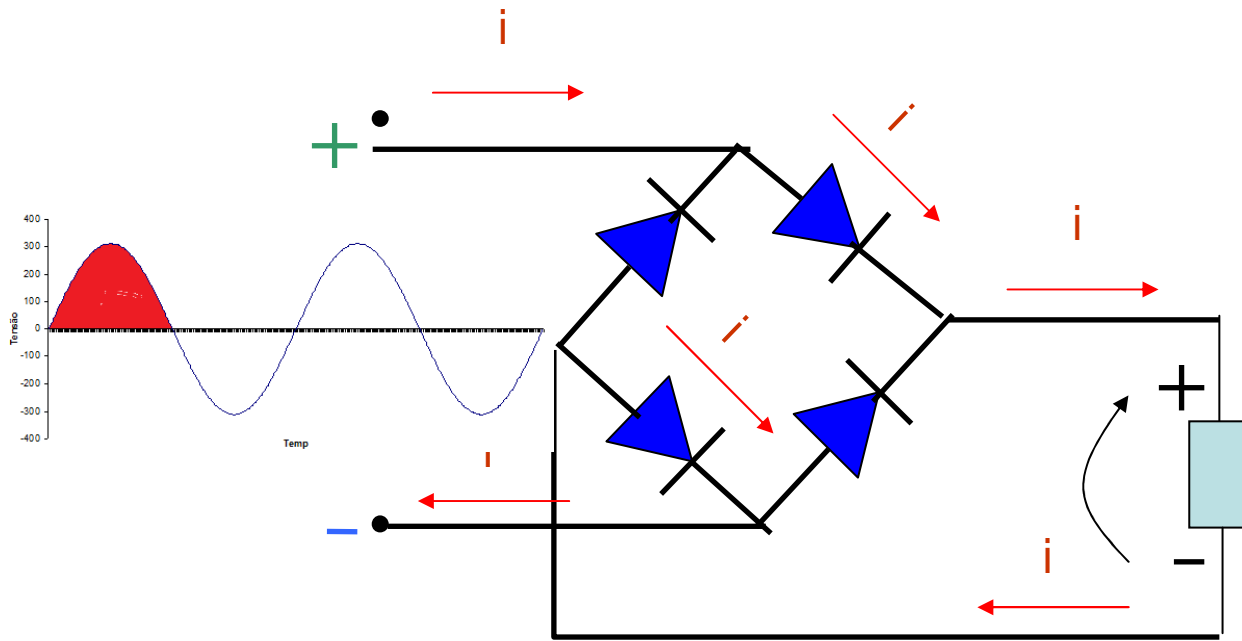


O diodo **não conduz** e a tensão da entrada **não passa** para a saída

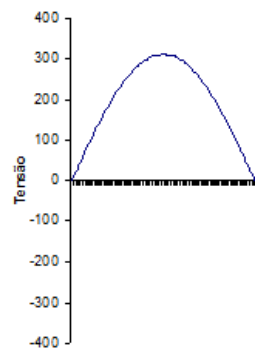
# Retificador de meia onda

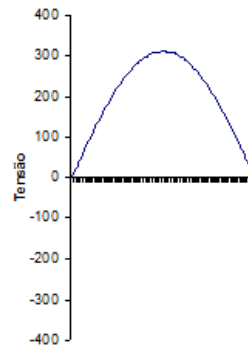
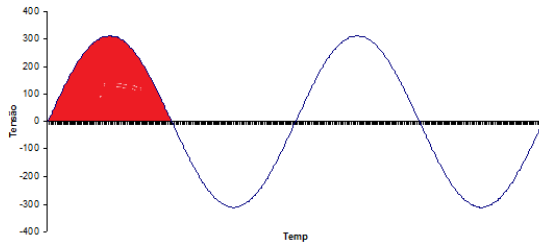
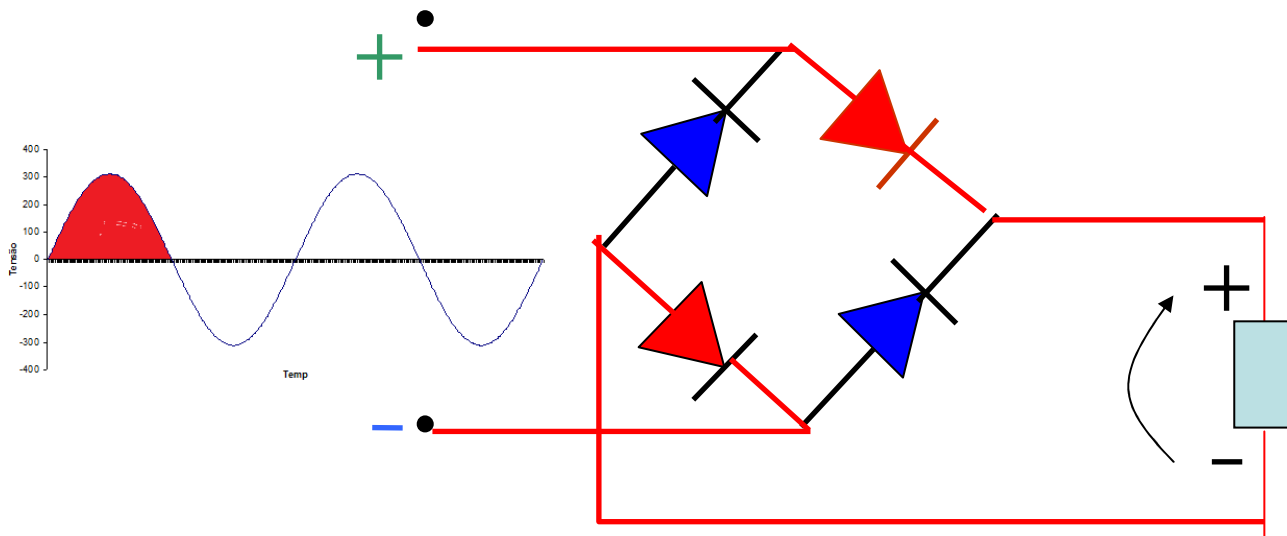




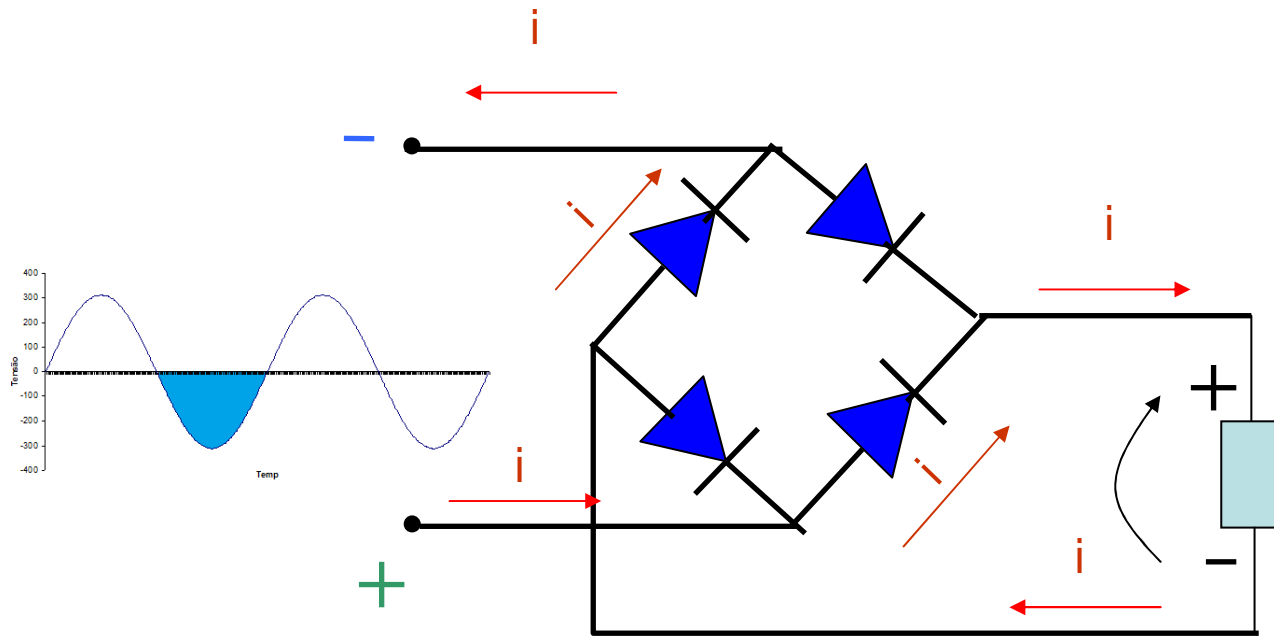


Carga

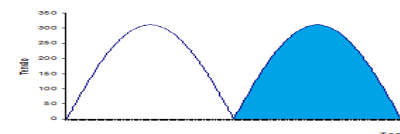


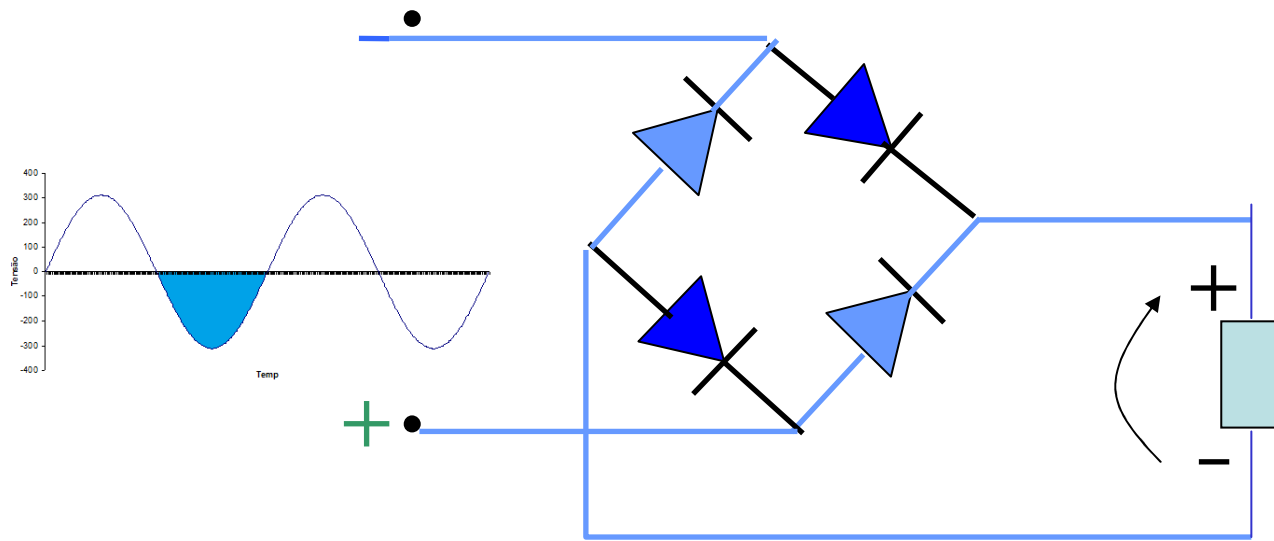


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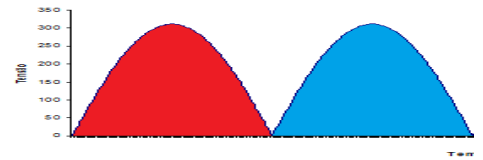


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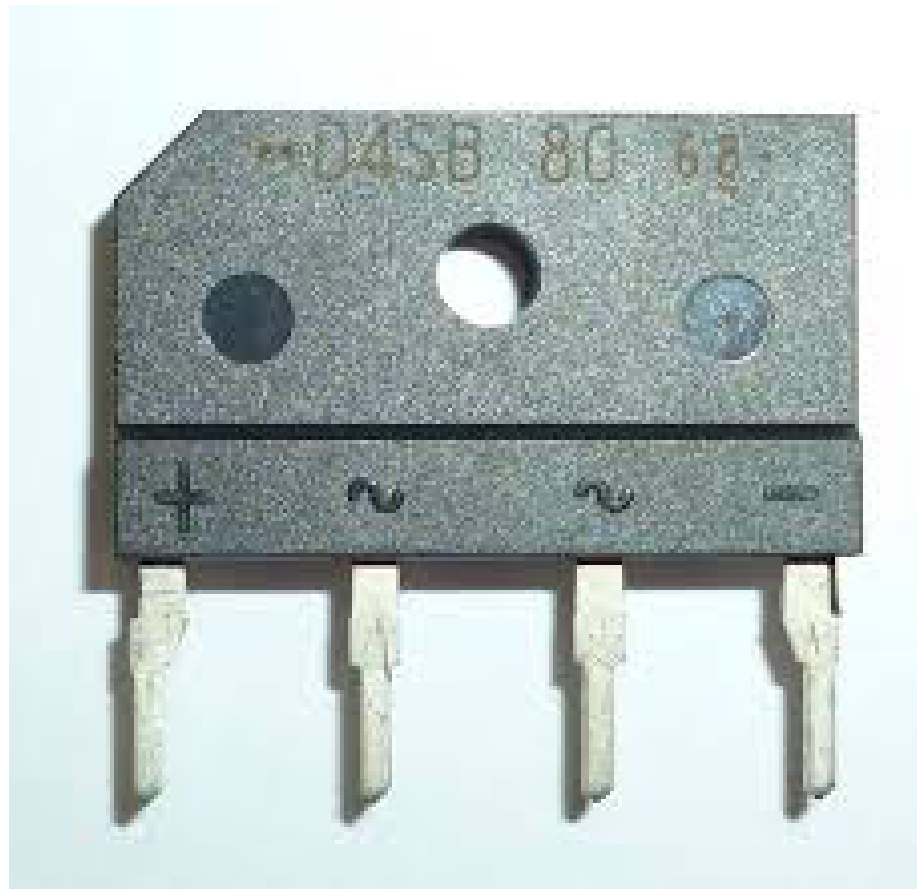


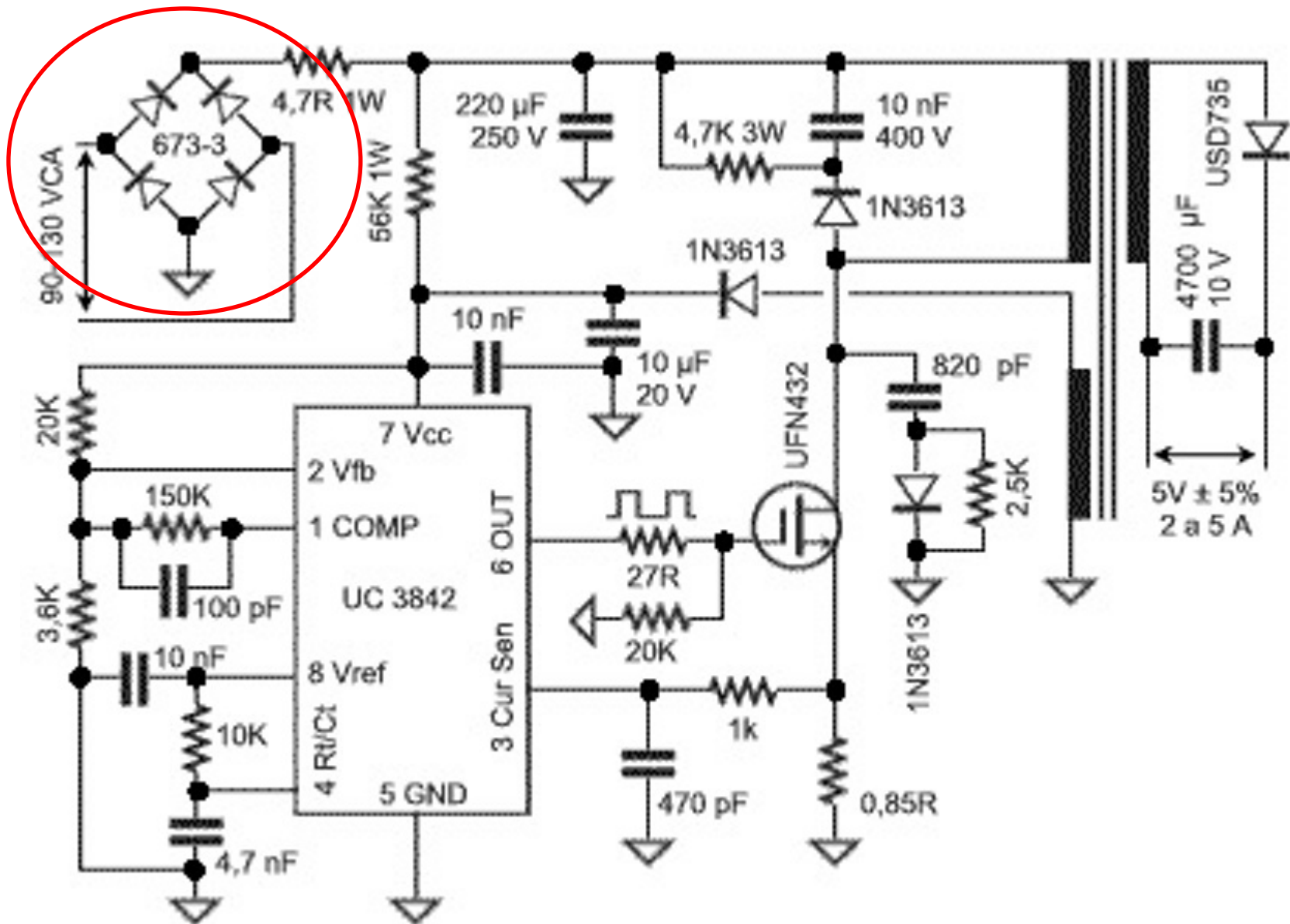


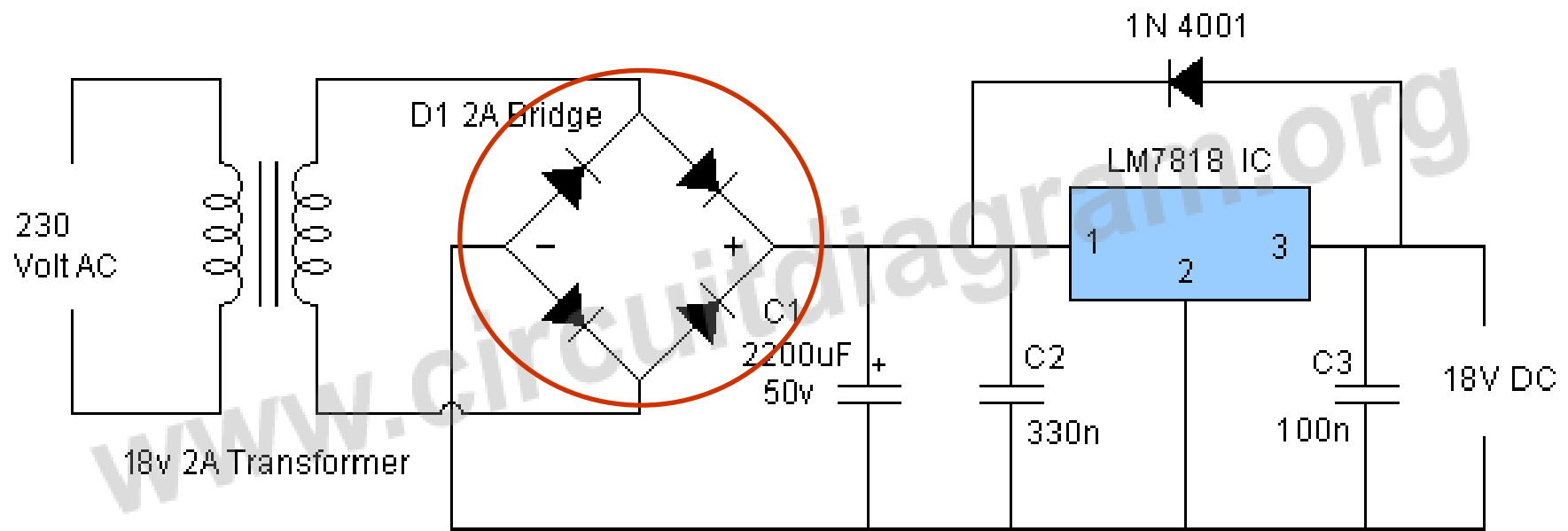
Carga



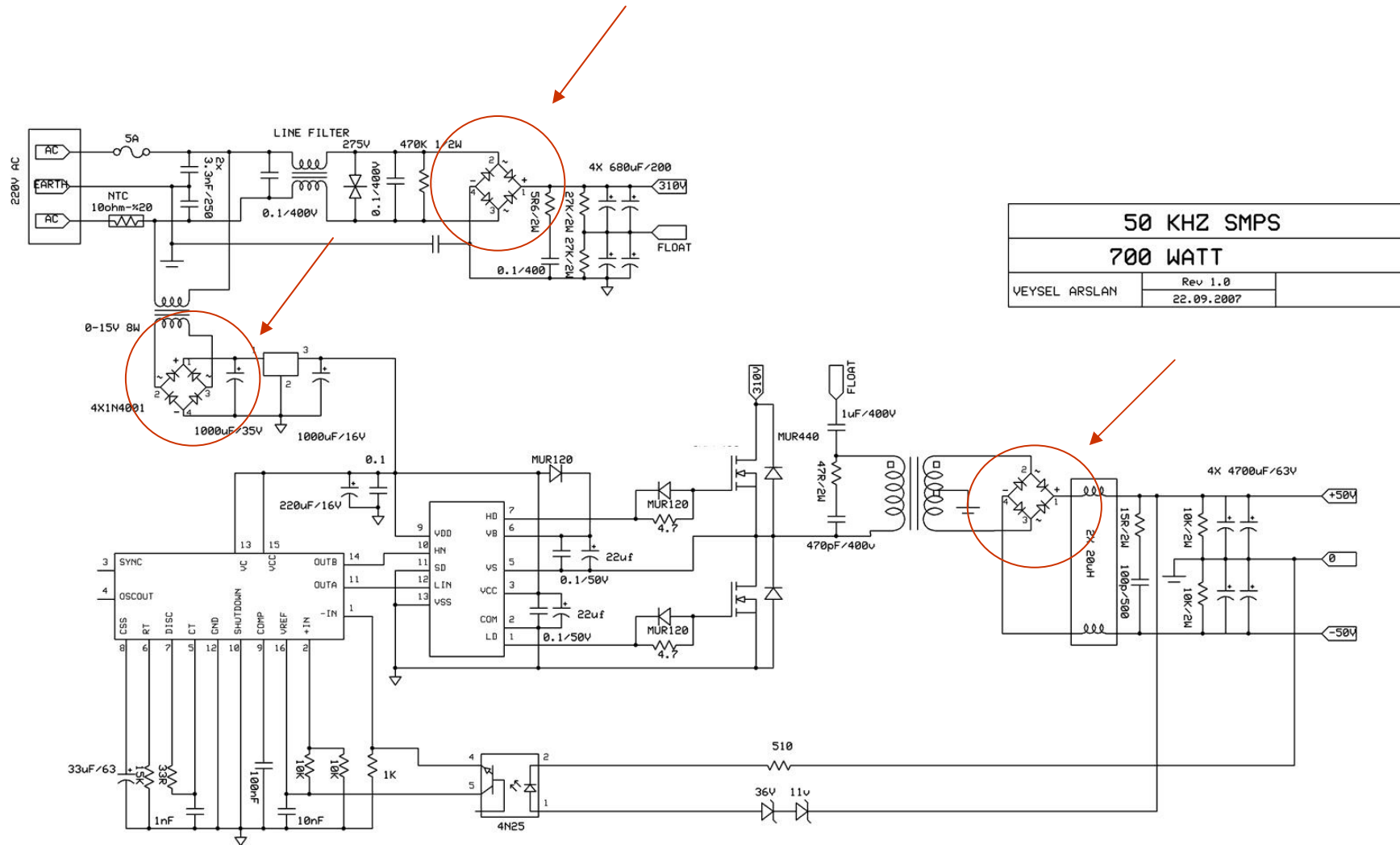
# Ponte retificadora de onda completa integrada







# Exemplos de esquema utilizados em fontes atuais



<b>50 KHZ SMPS</b>	
<b>700 WATT</b>	
VEYSEL ARSLAN	Rev 1.0
	22.09.2007



- Obrigado a Todos