

CIRCUITOS DE DISPARO DE TIRISTORES

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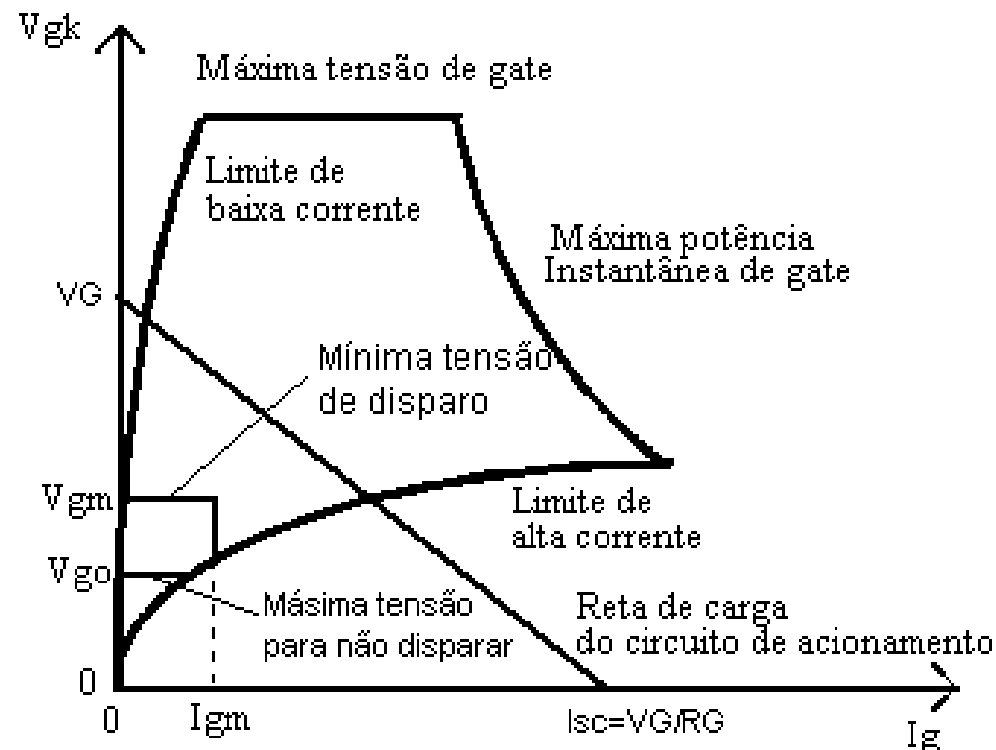
A FAMÍLIA DOS TIRISTORES

THYRISTORS		
PUT (PROGRAMMABLE UNIJUNCTION TRANSISTOR)		
LAPUT (LIGHT ACTIVATED PROGRAMMABLE UNIJUNCTION TRANSISTOR)		
DIAC (BIDIRECTIONAL DIODE THYRISTOR)		
SUS (SILICON UNILATERAL SWITCH)		
SBS (SILICON BILATERAL SWITCH)		
ASBS (ASSYMMETRICAL SILICON BILATERAL SWITCH)		

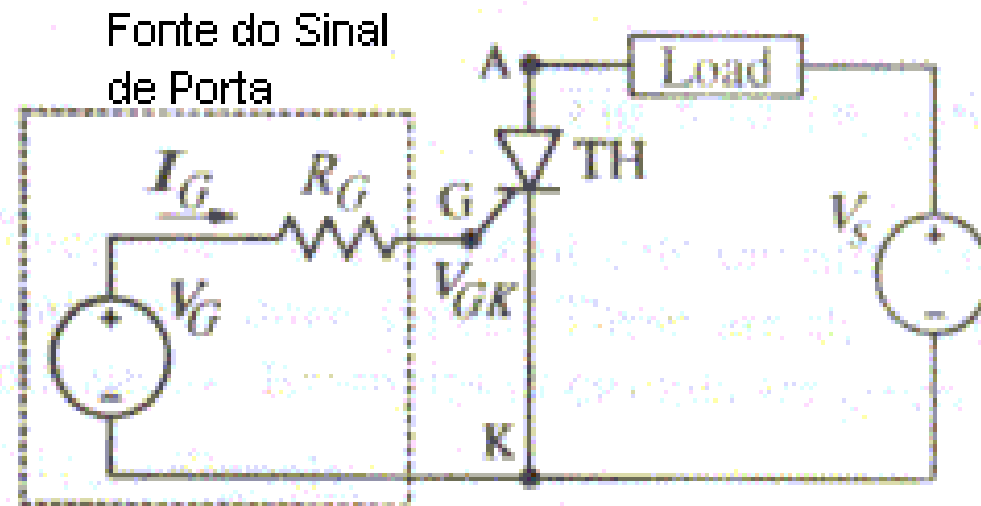
NAME OF SEMICONDUCTOR DEVICE	GRAPHICAL SYMBOLS USED IN THIS MANUAL	MAIN TERMINAL V-I CHARACTERISTIC
Thyristors (cont.)		
SCR (SILICON CONTROLLED RECTIFIER) REVERSE BLOCKING TRIODE THYRISTOR		
LAS (LIGHT ACTIVATED SWITCH) LIGHT ACTIVATED REVERSE BLOCKING DIODE THYRISTOR		
LASCR (LIGHT ACTIVATED SILICON CONTROLLED RECTIFIER) LIGHT ACTIVATED REVERSE BLOCKING TRIODE THYRISTOR		
TRIAC (BIDIRECTIONAL TRIODE THYRISTOR)		
SCS (SILICON CONTROLLED SWITCH) REVERSE BLOCKING TETRODE THYRISTOR		
LASCS (LIGHT ACTIVATED SILICON CONTROLLED SWITCH) LIGHT ACTIVATED REVERSE BLOCKING TETRODE THYRISTOR		

MÉTODOS DE DISPARO DOS TIRISTORES

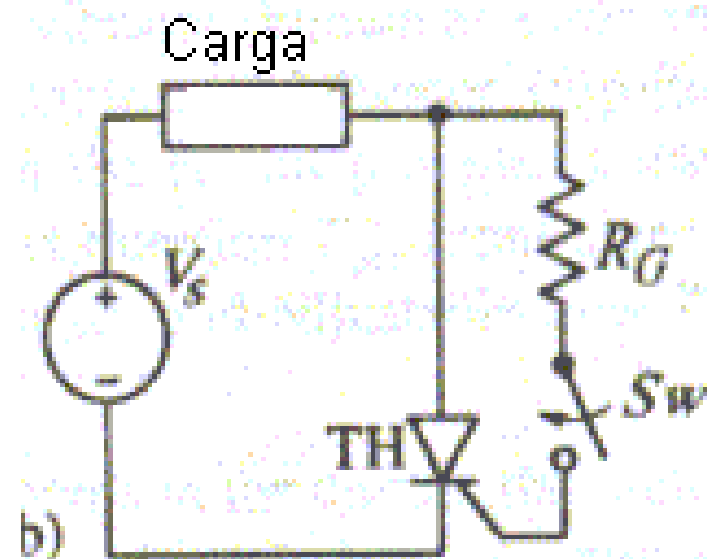
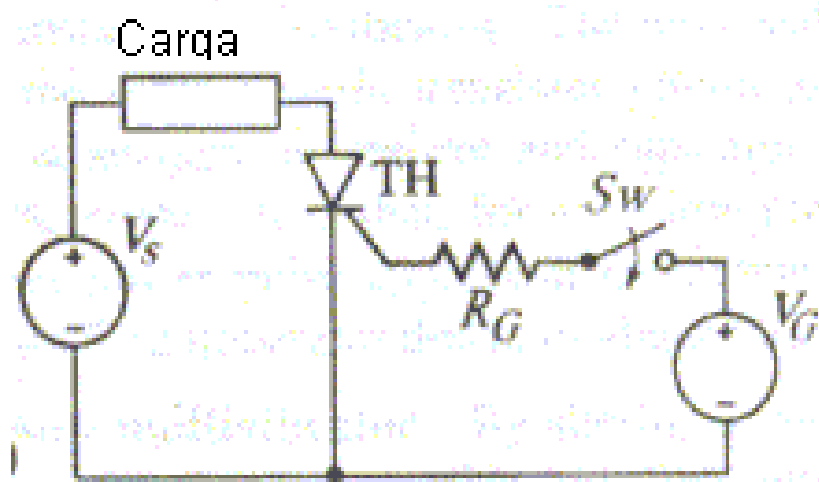
- ULTRAPASSAGEM DE V_{BO}
- ULTRAPASSAGEM DE (dv/dt) MÁXIMA
- AUMENTO DA TEMPERATURA
- ENERGIA RADIANTE
- INJEÇÃO DE CORRENTE NO TERMINAL DE PORTA.



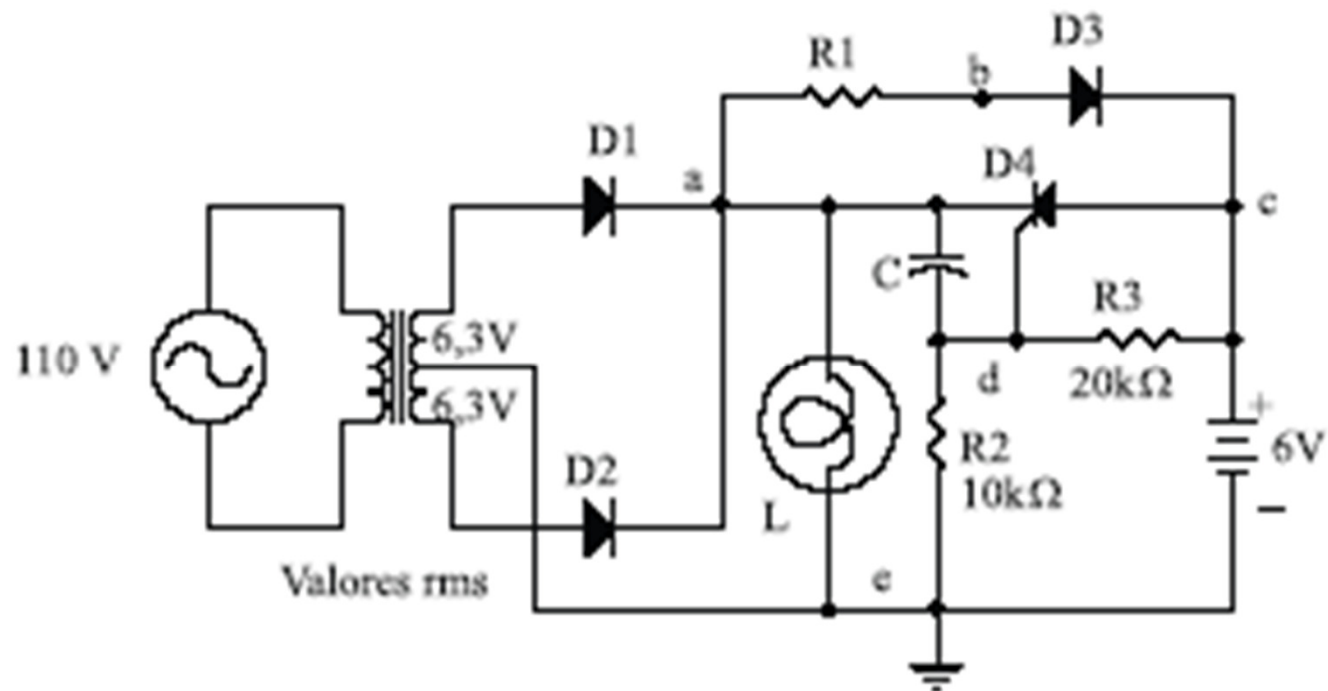
CIRCUITO EQUIVALENTE DO CIRCUITO DE DISPARO



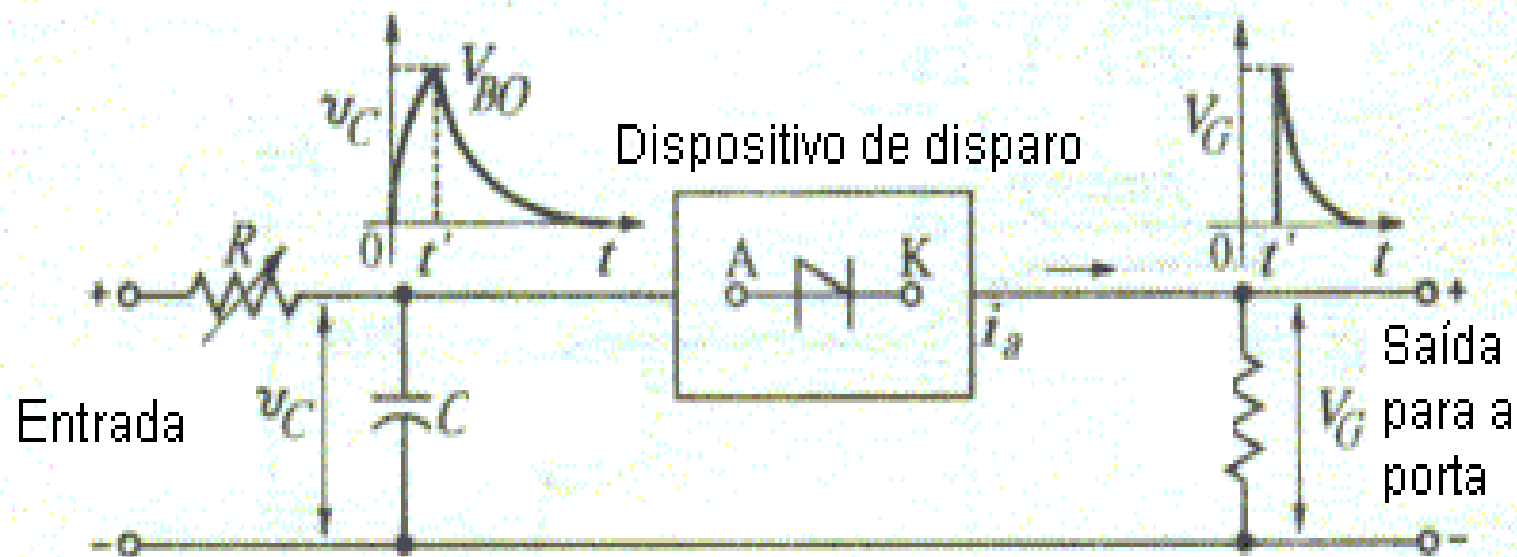
DISPARO COM SINAIS CC NA PORTA



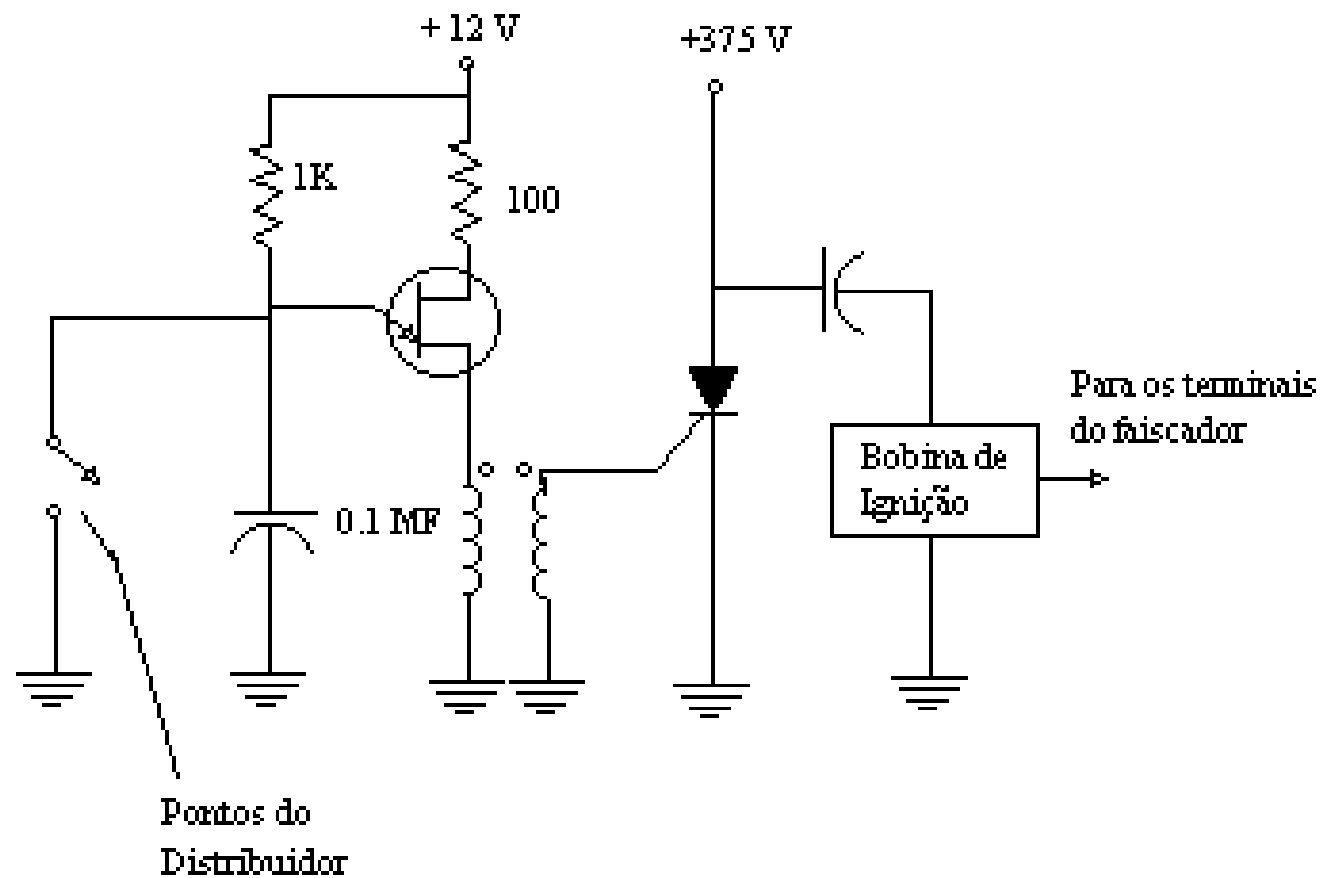
CIRCUITO DE ILUMINAÇÃO DE EMERGÊNCIA



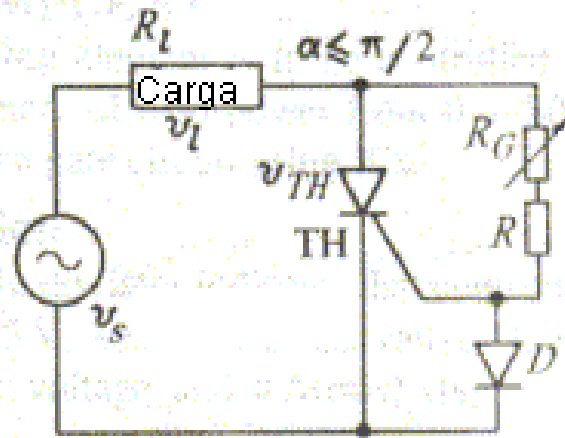
DISPARO COM PULSOS DE CORRENTE OSCILADOR DE RELAXAÇÃO



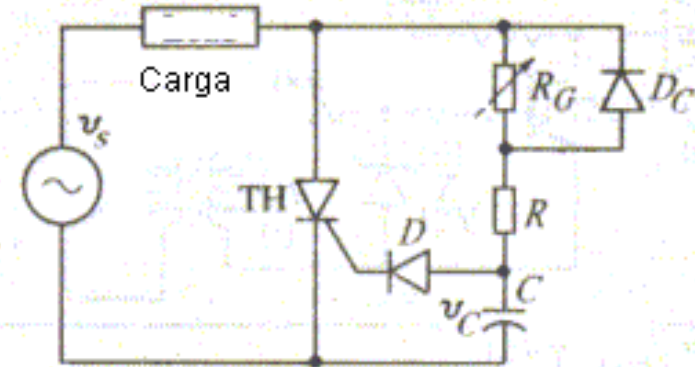
IGNIÇÃO DE AUTOMÓVEL



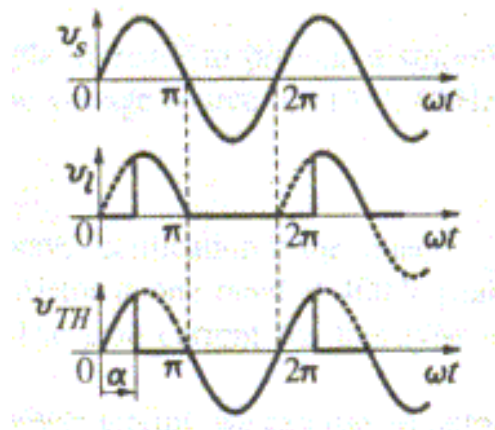
DISPARO COM SINAIS DE PORTA CA



DISPAROS ENTRE 0° E 90°

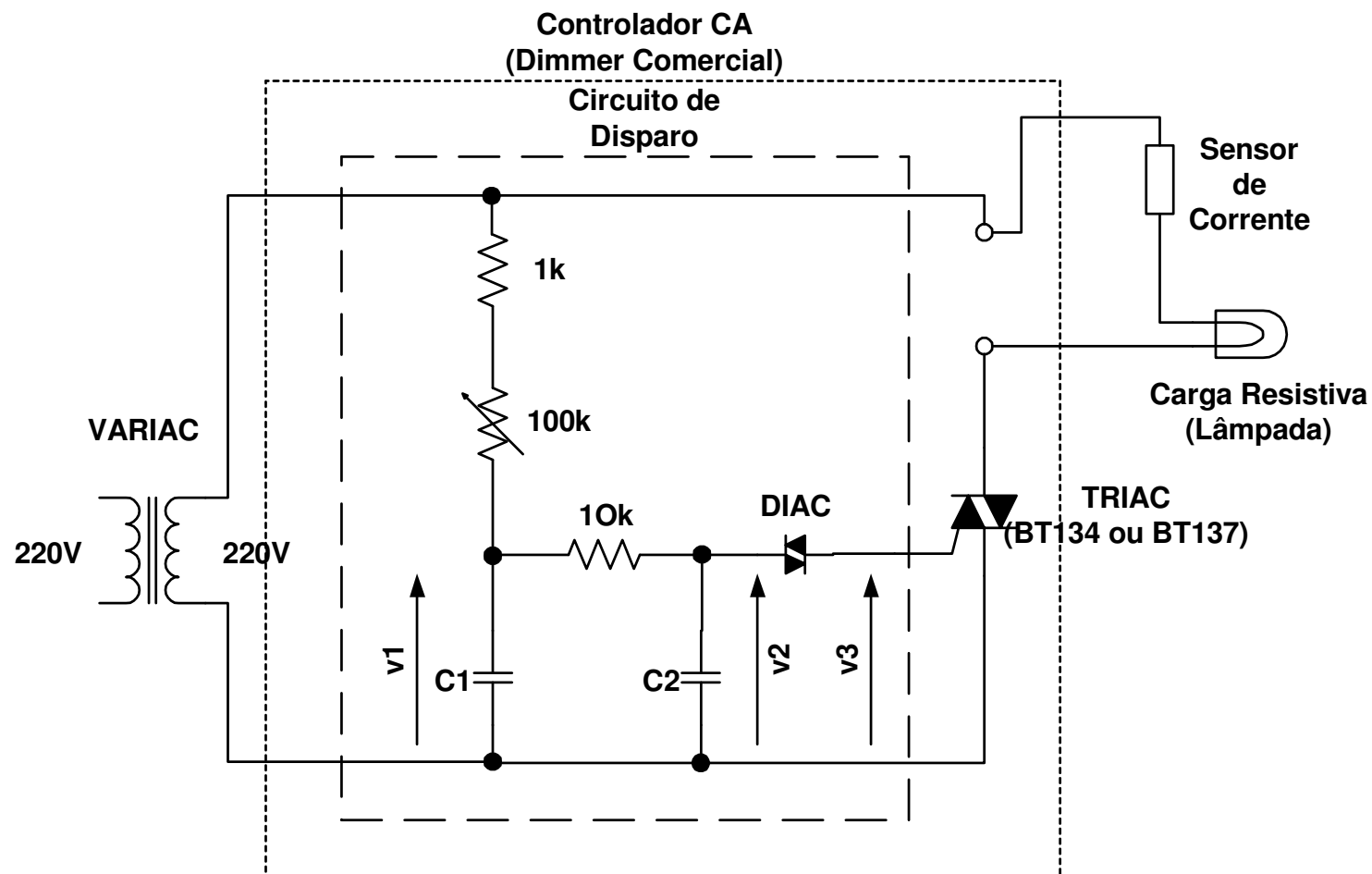


DISPAROS ENTRE 0° E 180°

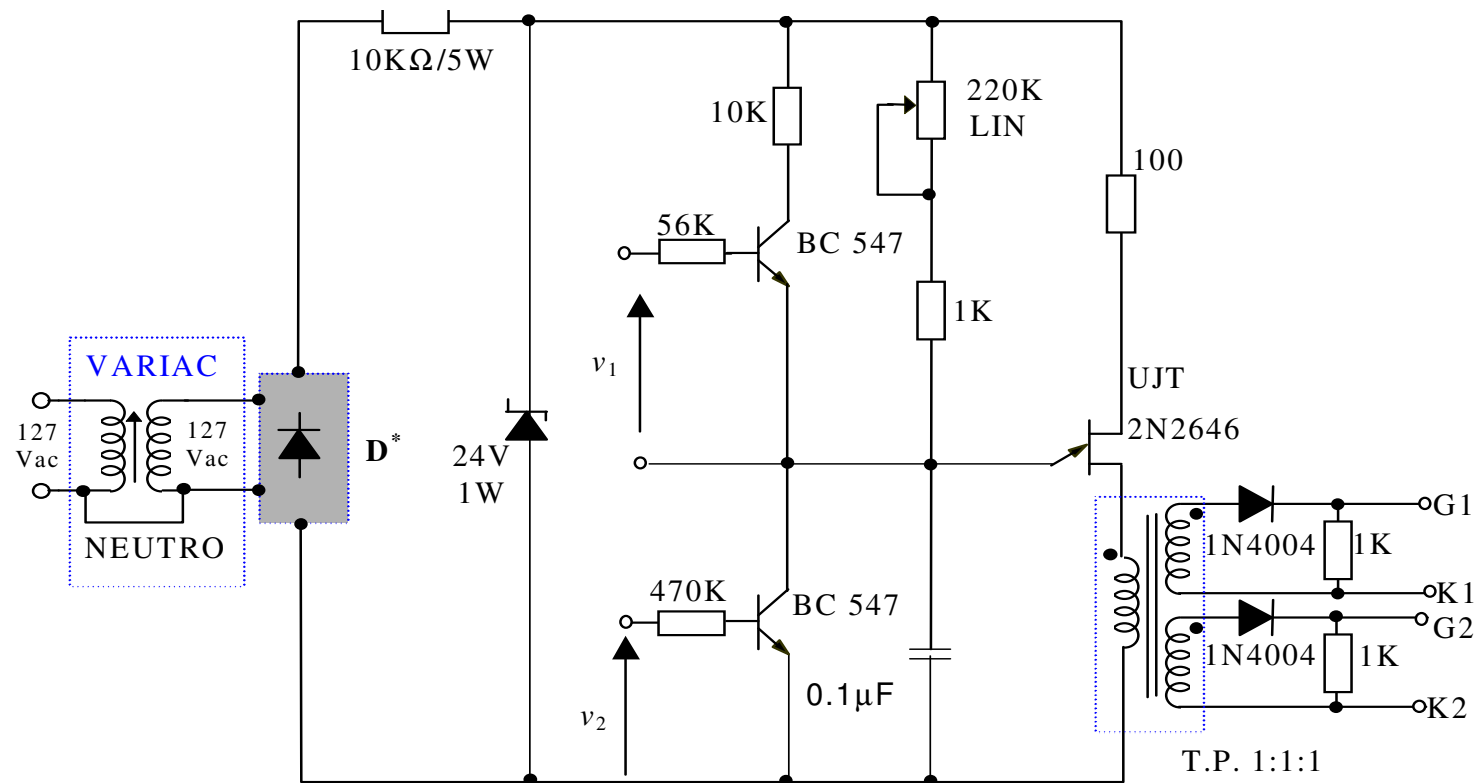


DIMMER COMERCIAL

(CONTROLE DE ILUMINAÇÃO E VENTILADORES DE TETO)

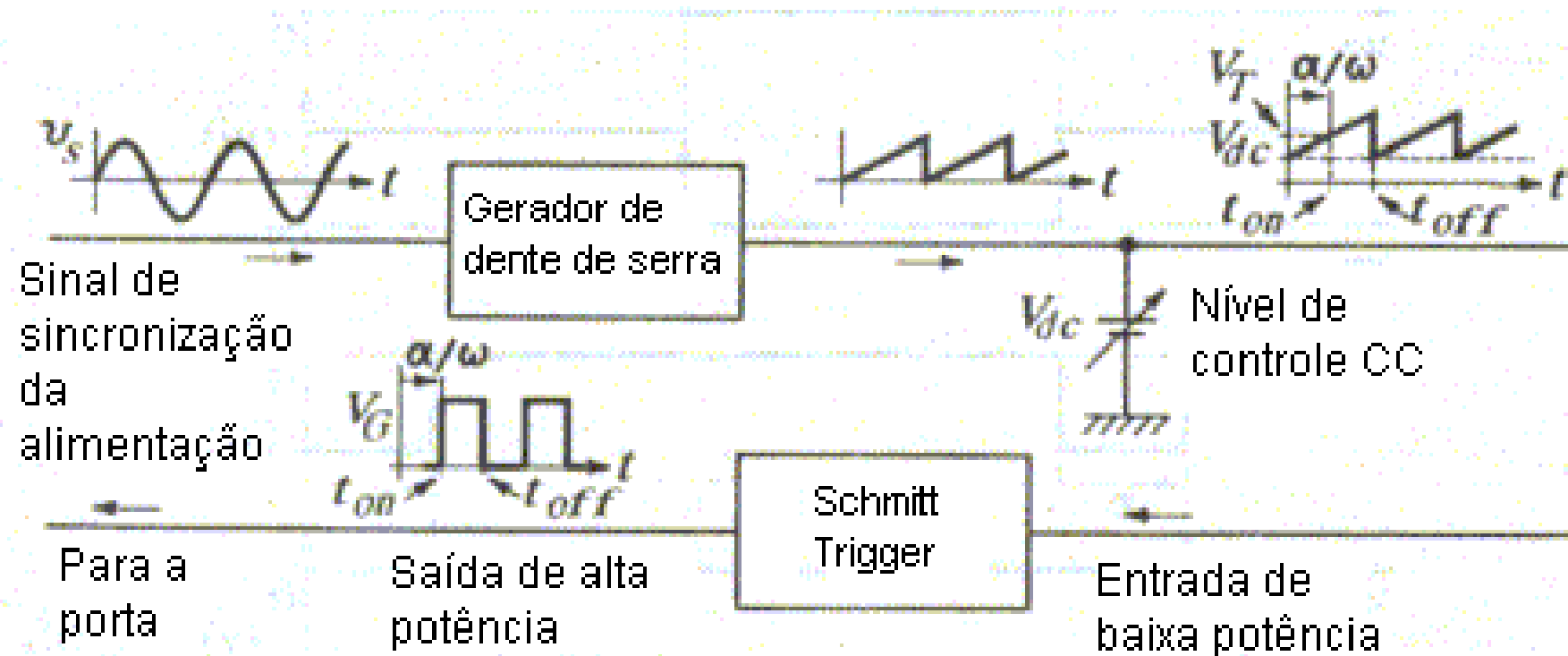


SINAIS DE DISPARO PARA CIRCUITO CA COM OSCILADOR DE RELAXAÇÃO COM UJT

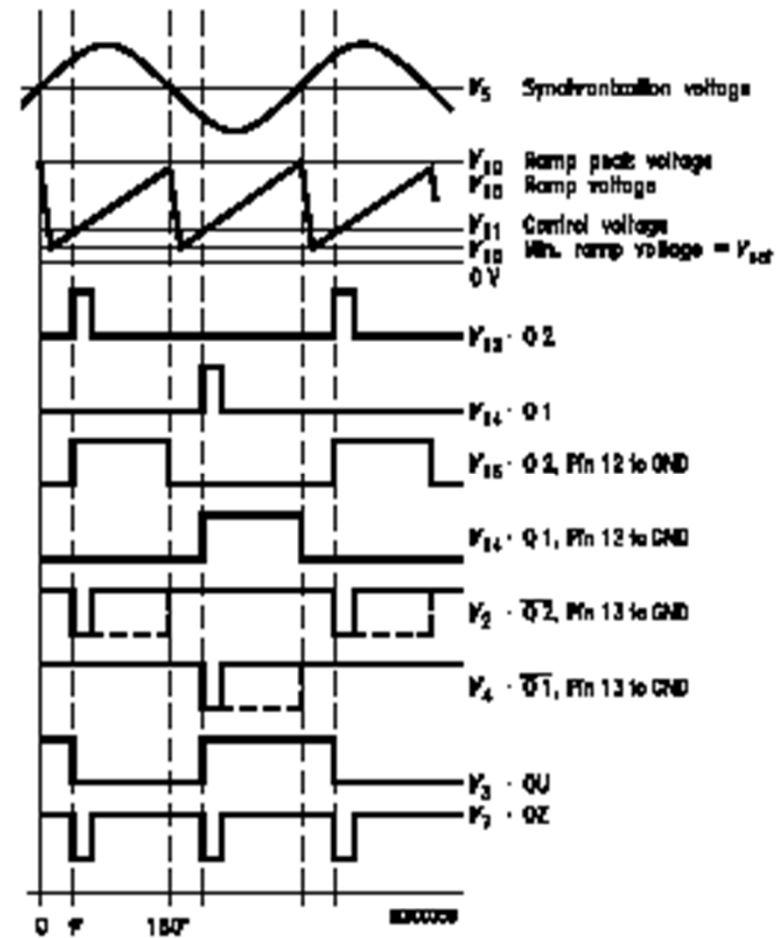
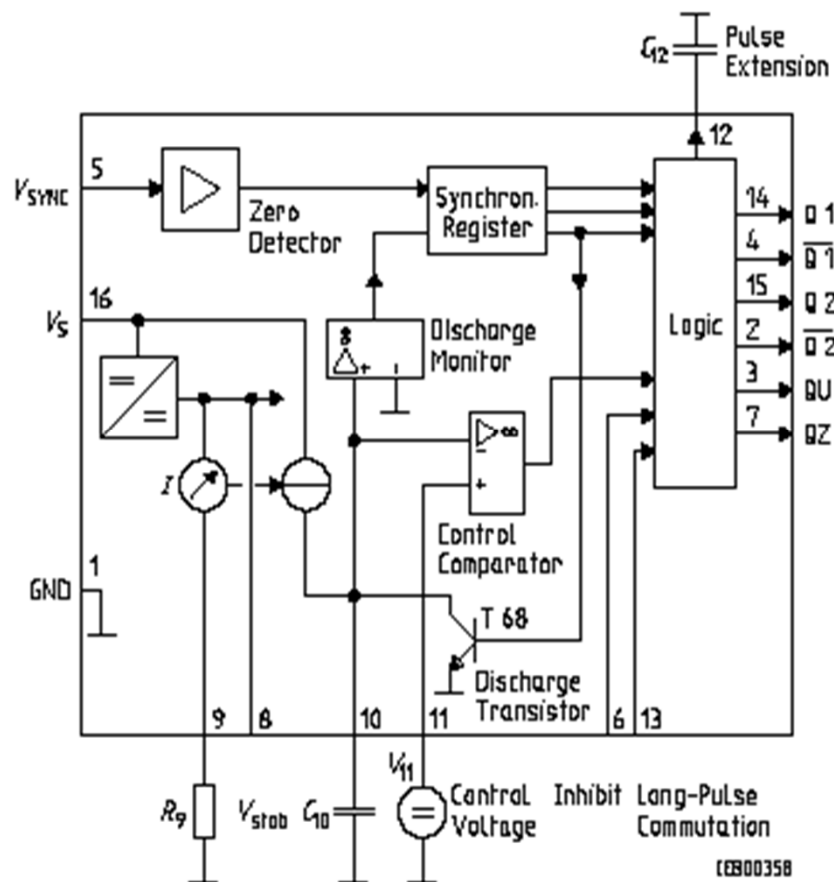


(*) USAR RETIFICADOR DE ACORDO COM O SINAL A SER SINCRONIZADO

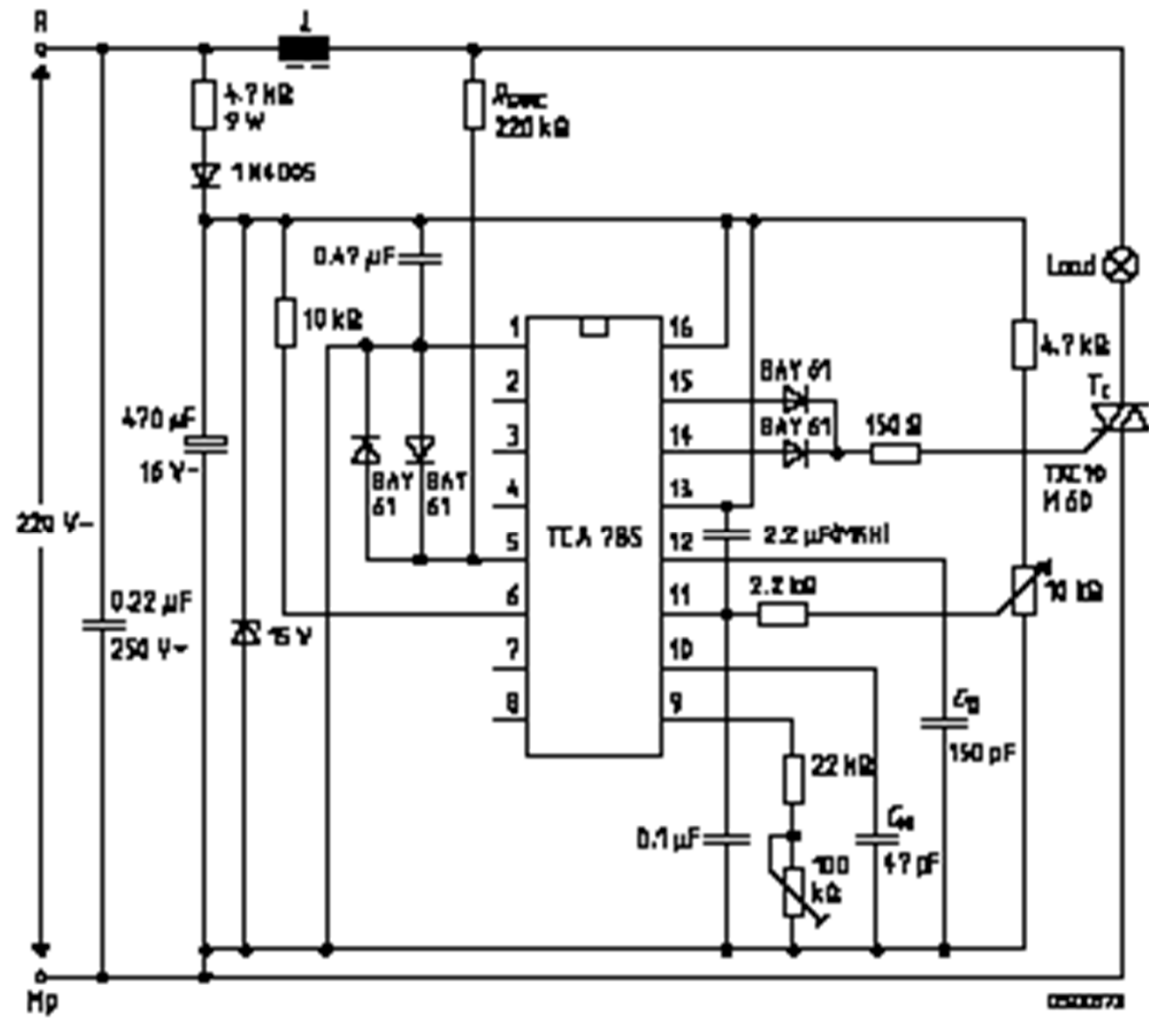
CIRCUITO DE DISPARO COM SCHIMITT TRIGGUER



CIRCUITO INTEGRADO DEDICADO – TCA785



APLICAÇÃO DO TCA785 – DIMMER COM TRIAC



APLICAÇÃO DO TCA785 – CONTROLADOR CA COM DOIS SCR'S

