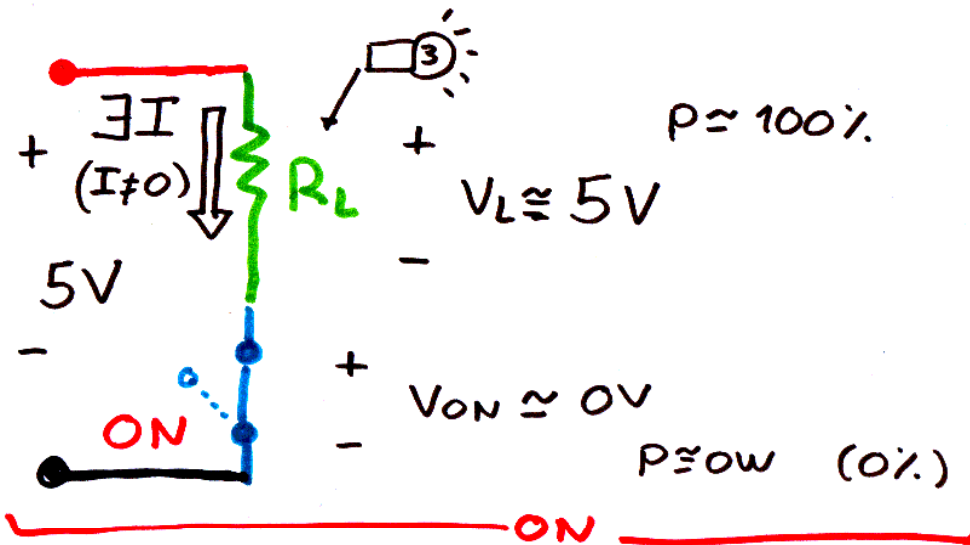
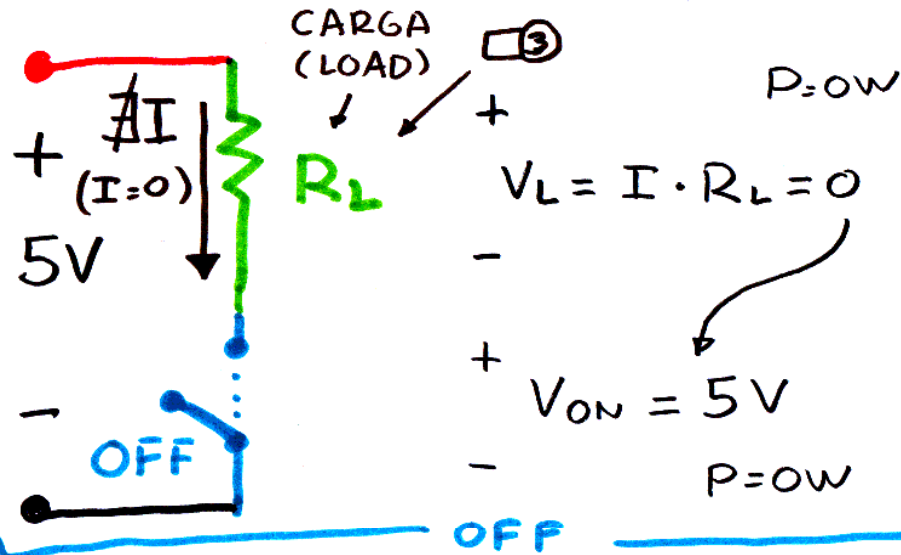


$$V_{CC} = 5V = V_L + V_{ON}$$

$$P = I \cdot V$$



EJEMPLO CON LOS DISPOSITIVOS QUE USAREMOS (CÁLCULOS CON  $I_{ON} = 10A$ )  
Y  $V_{CC} = 5V$

RELE y  
MOSFET

$$P \approx 49.95W$$

$$V_L \approx 4.995V$$

$$V_{ON} \approx 5mV$$

$$P \approx 50mW$$

$$(0.1\%)$$

BJT y  
OPTO ACOPLADOR

$$P \approx 48W$$

$$V_L \approx 4.8V$$

$$V_{ON} \approx 0.2V$$

$$P \approx 2W$$

$$(4\%)$$

SCR y  
Darlington

$$P \approx 42W$$

$$V_L \approx 4.2V$$

$$V_{ON} \approx 0.8V$$

$$P \approx 8W$$

$$(16\%)$$

IGBT

$V_{CC} = 5V$	$V_{CC} = 400V$
$P \approx 38W$	$P \approx 3.988W$
$V_L \approx 3.8V$	$V_L \approx 398.8V$
$V_{ON} \approx 1.2V$	$P \approx 12W$
$24\% !!$	$(0.3\%)$

