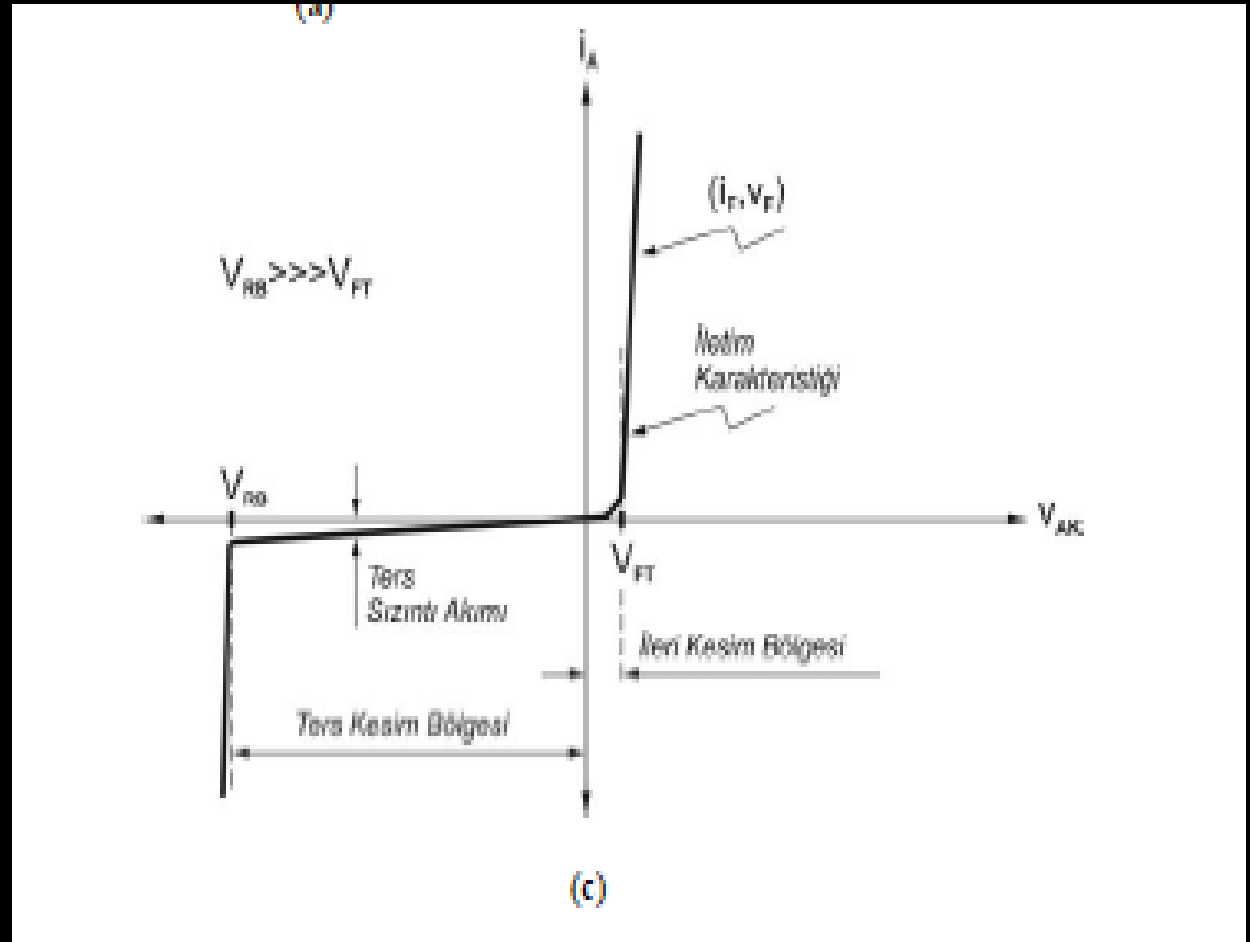
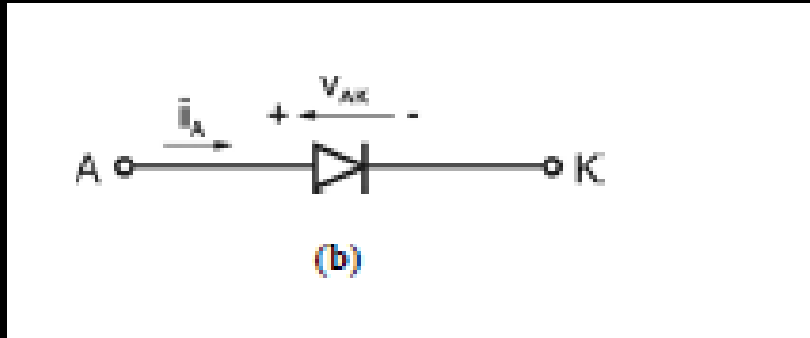
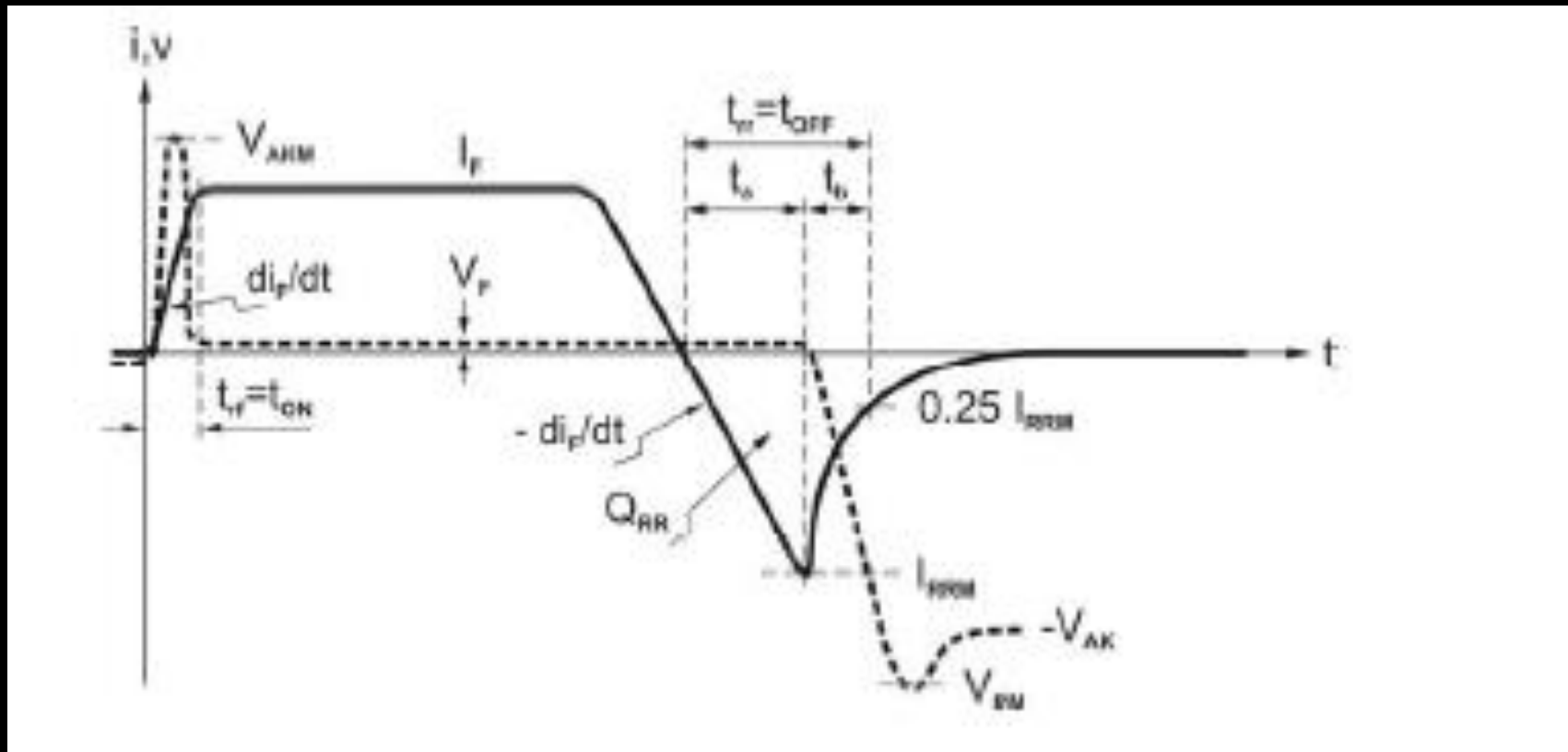

POWER ELECTRONIC 2

2020, Istanbul

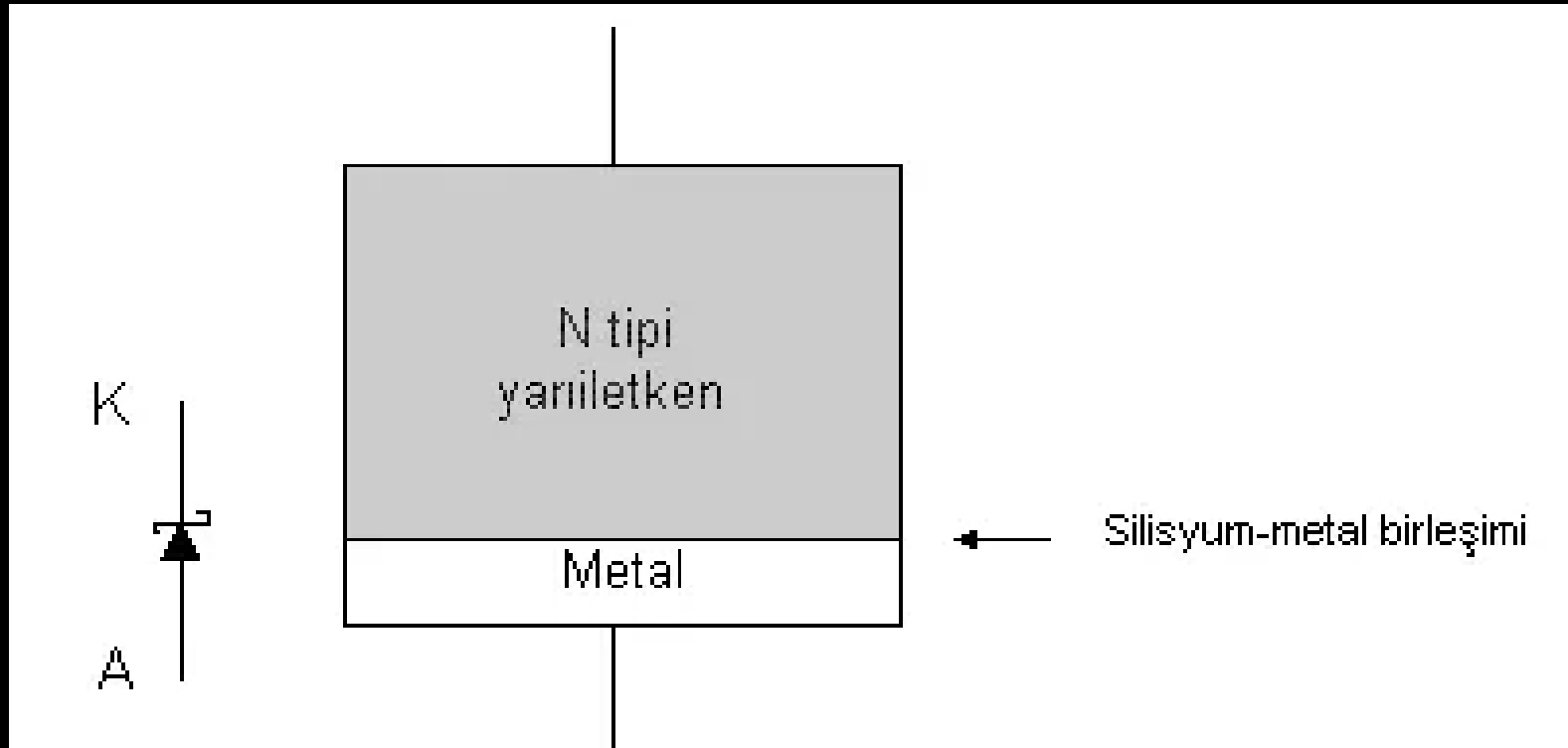
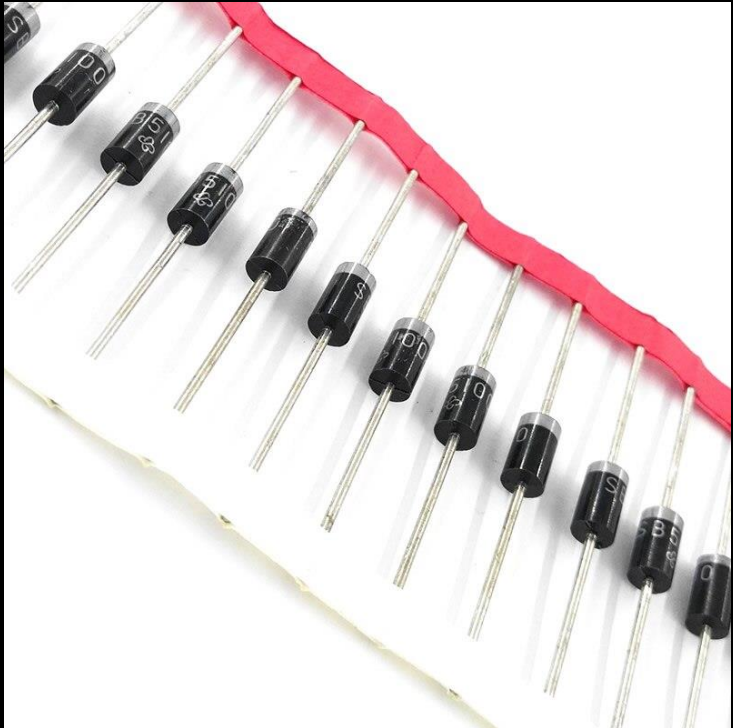
Power Diodes



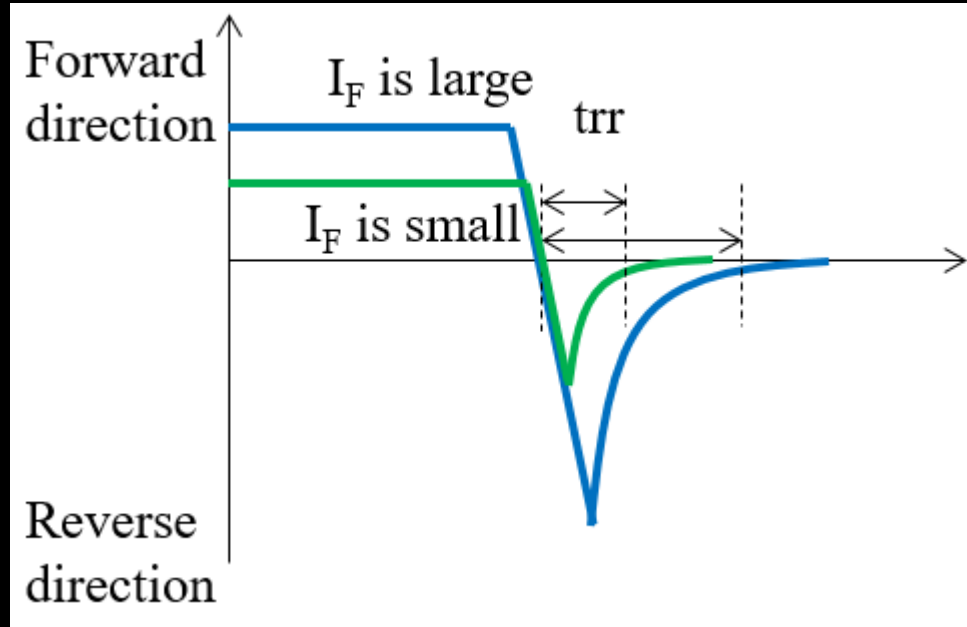
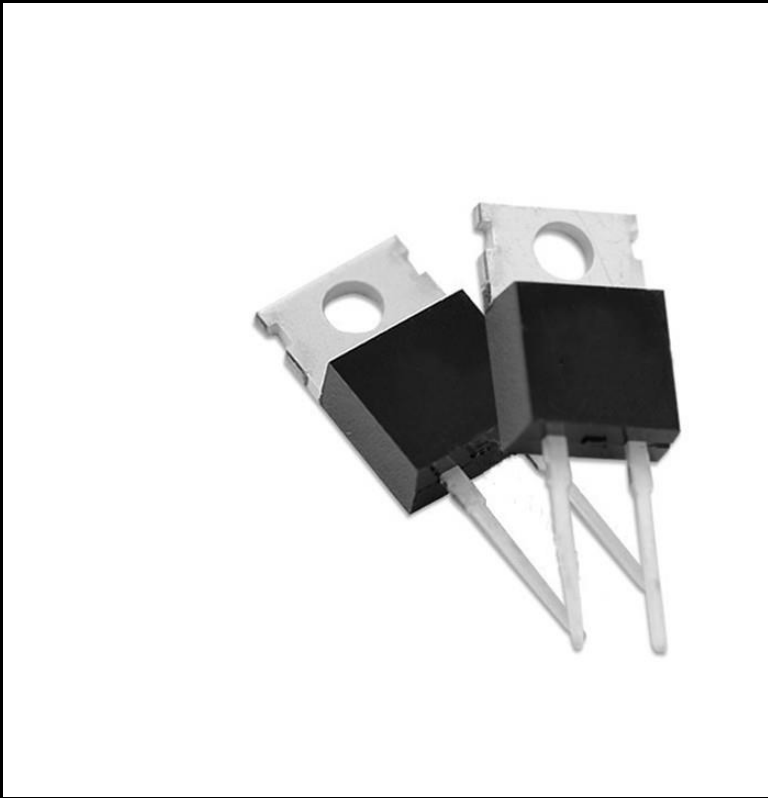
Power Diodes



Diode Types



Schottky Diode



Fast Recovery Diode

Thyristors

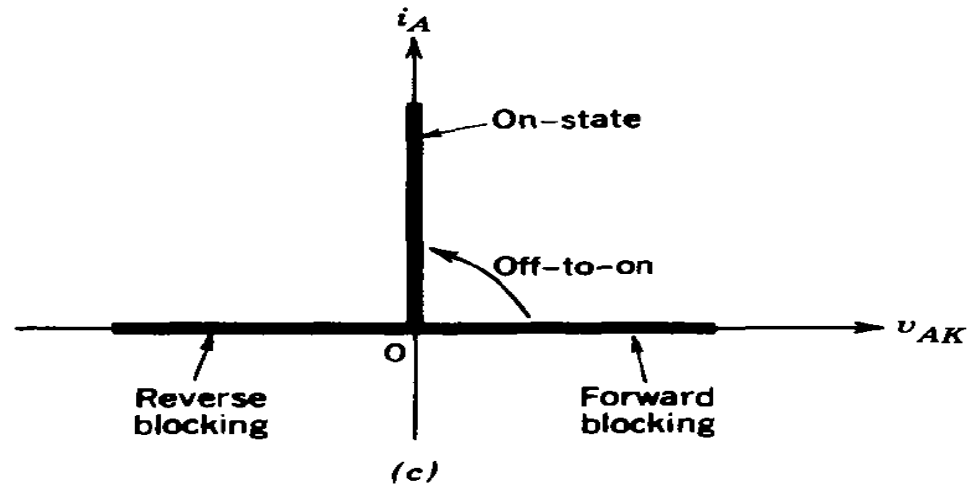
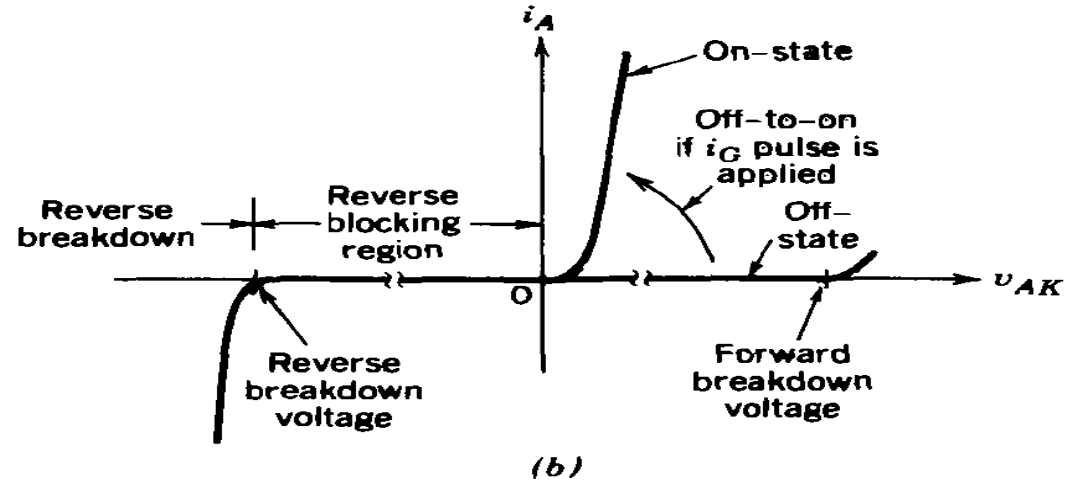
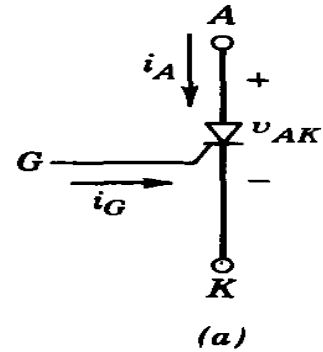
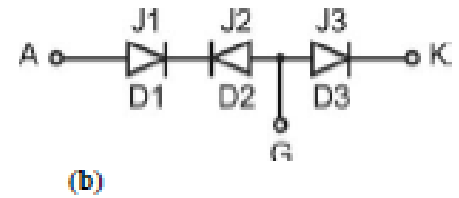
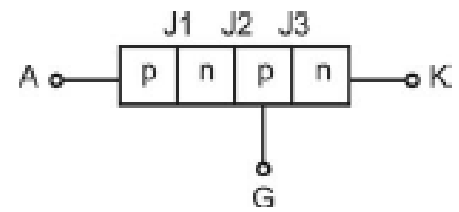
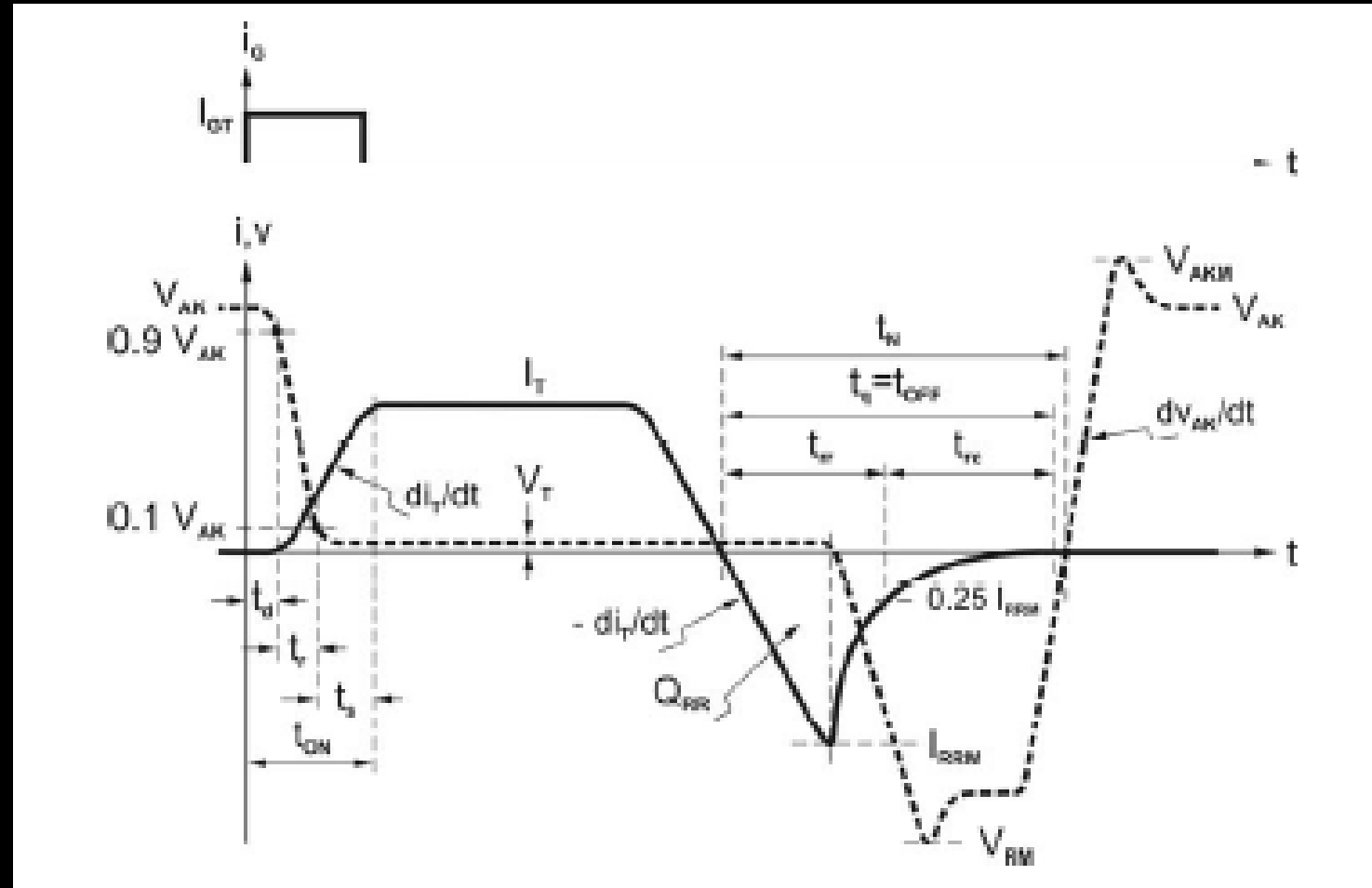
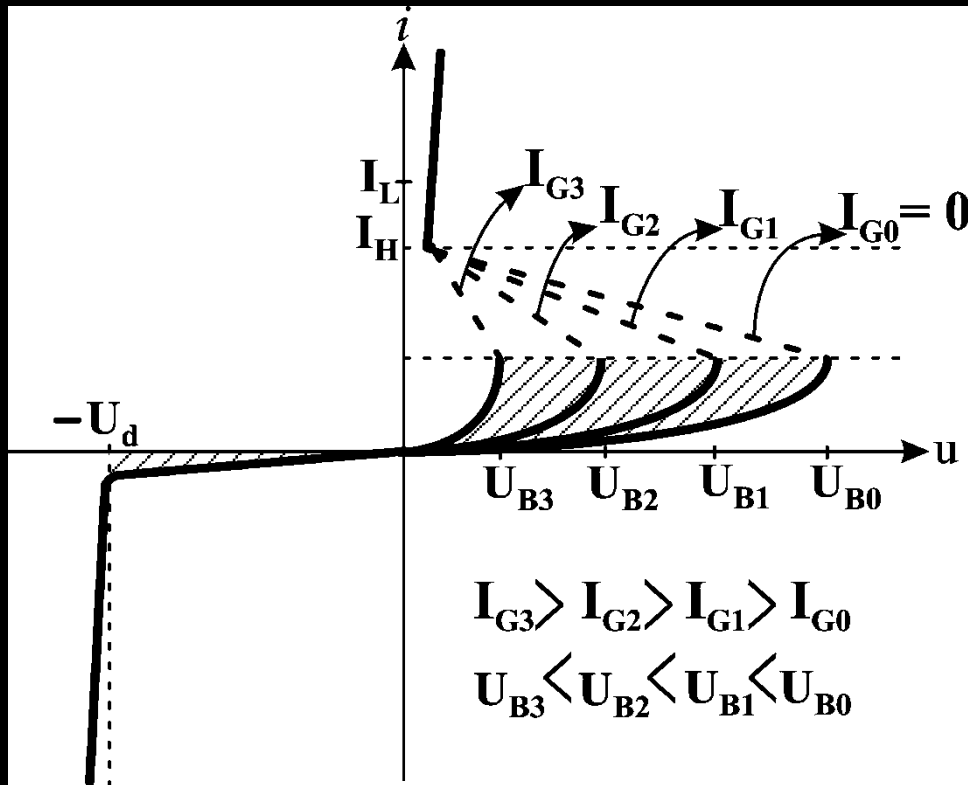
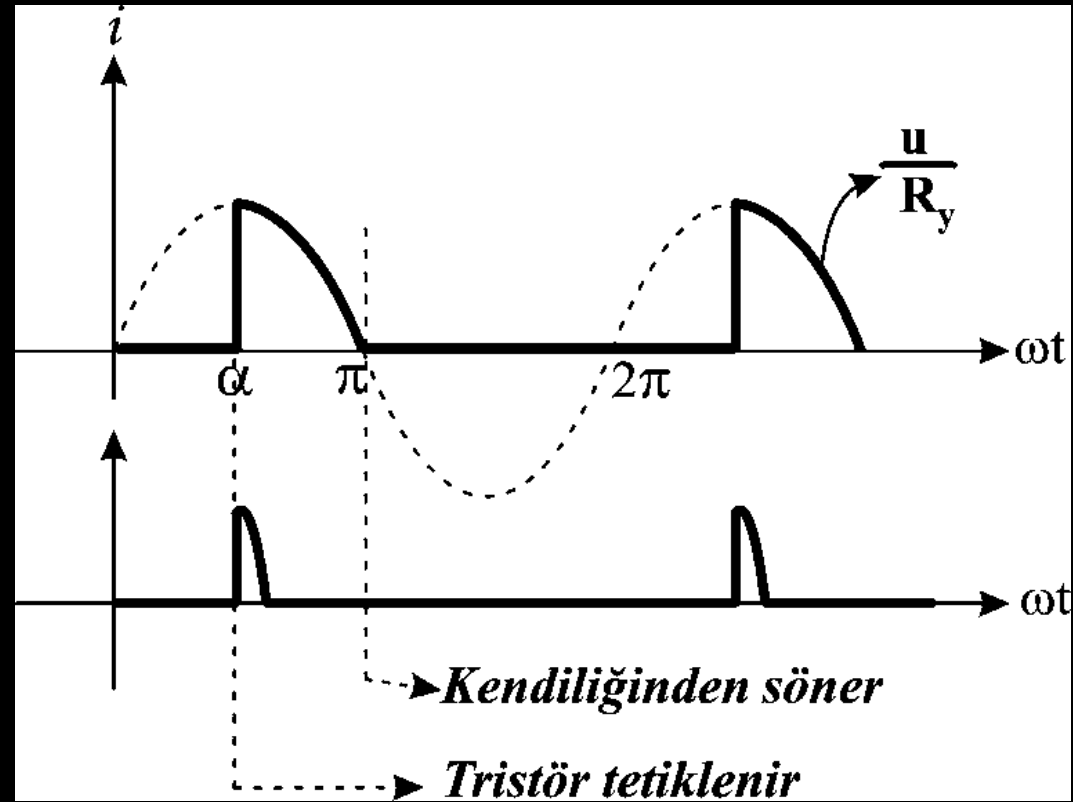
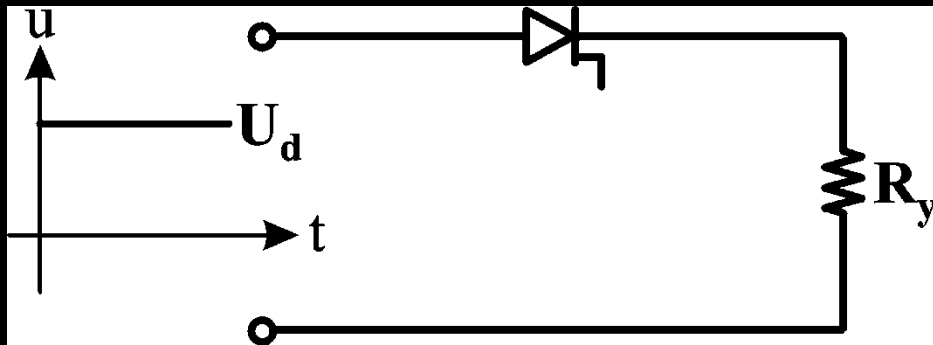
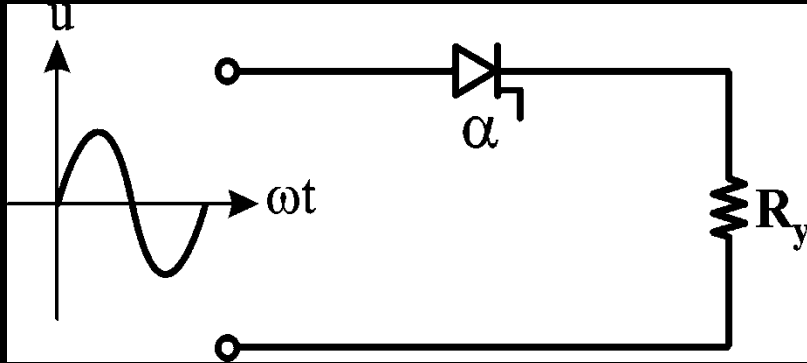


Figure 2-3 Thyristor: (a) symbol, (b) $i-v$ characteristics, (c) idealized characteristics.

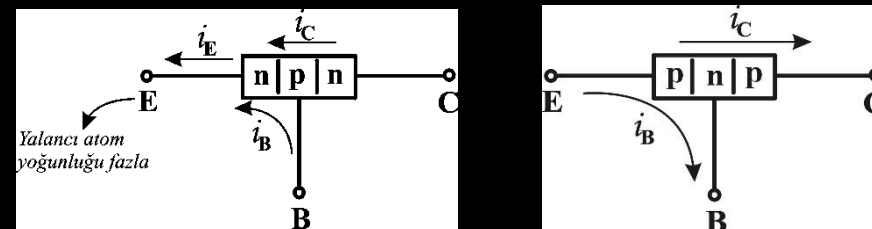
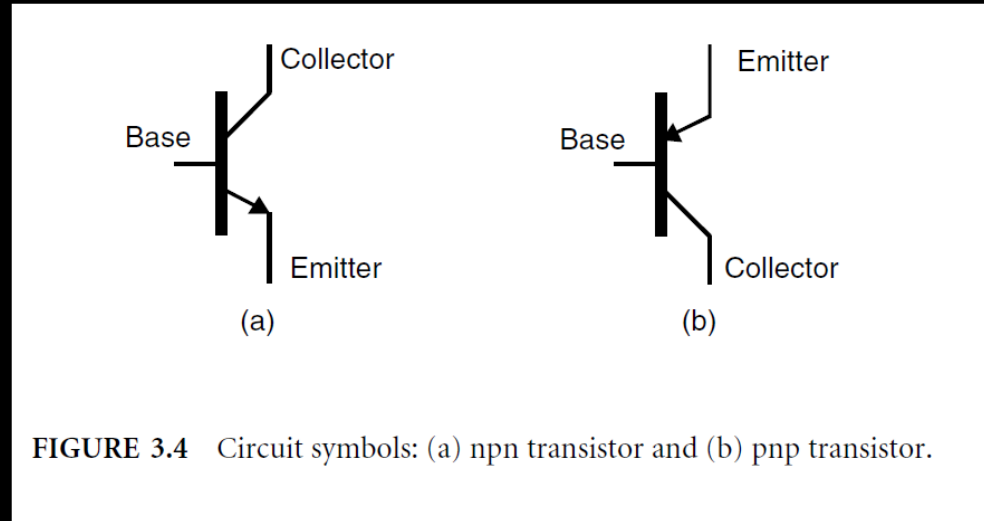
Thyristors



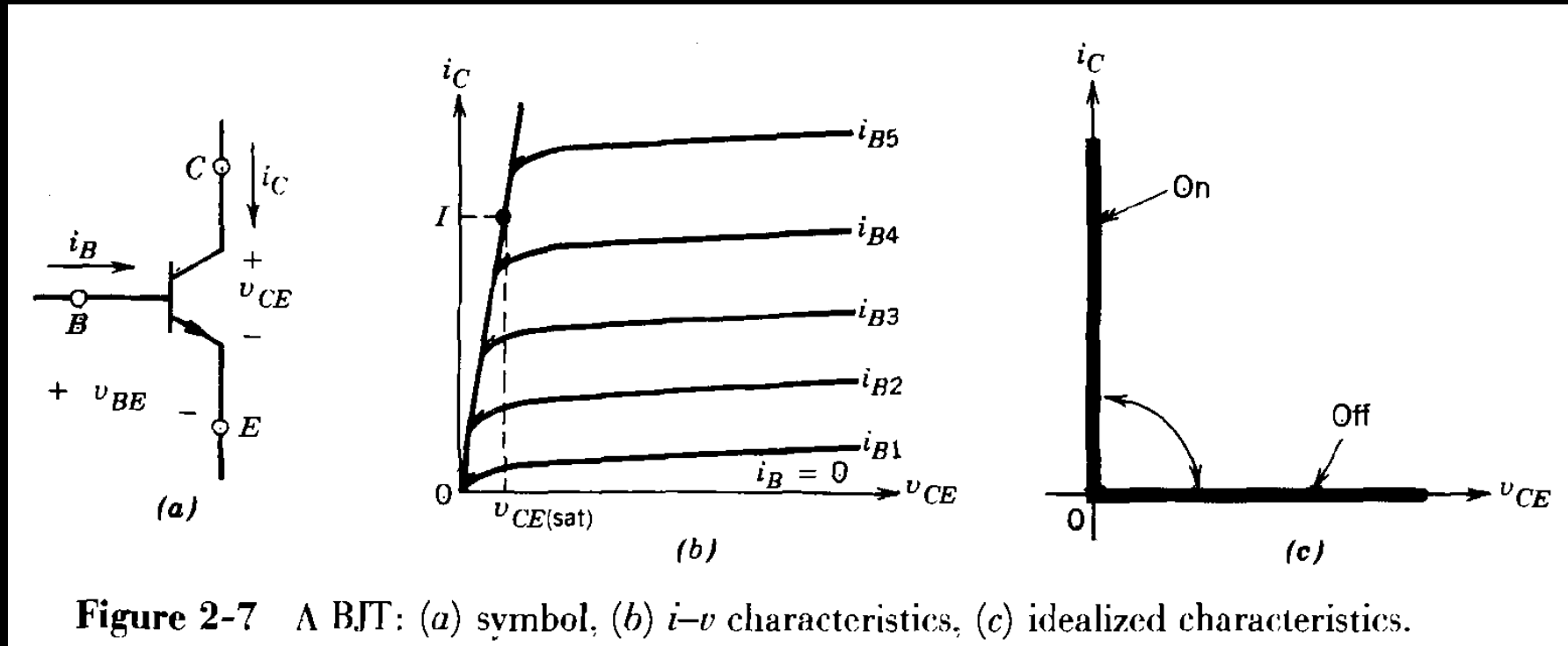
Thyristors



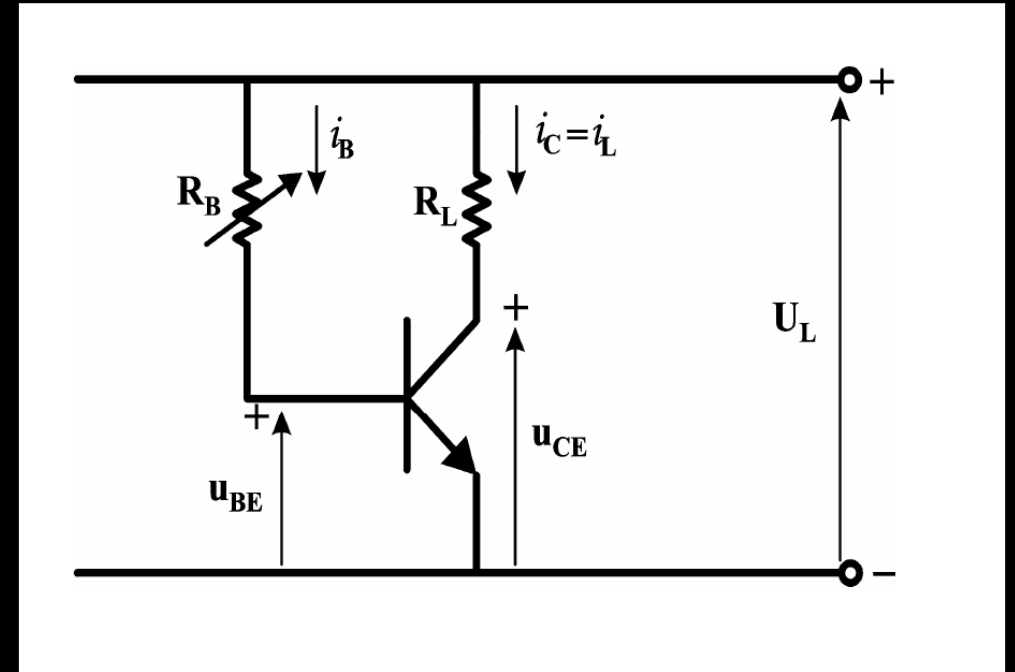
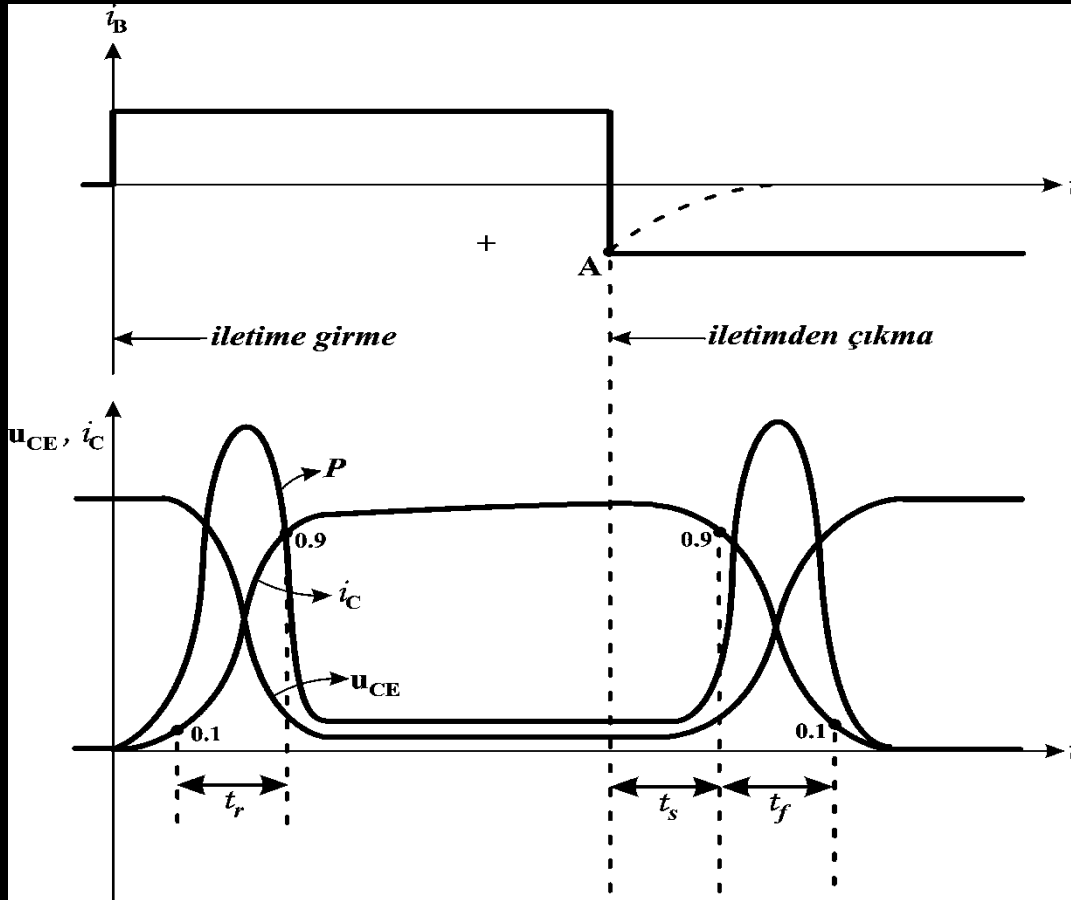
The Bipolar Junction Transistor (BJT)



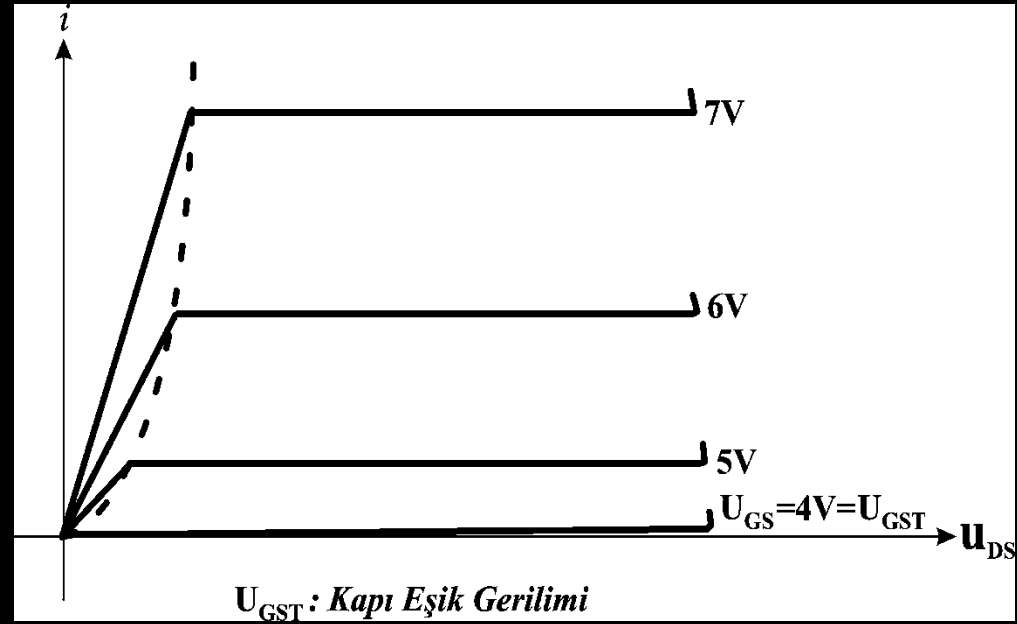
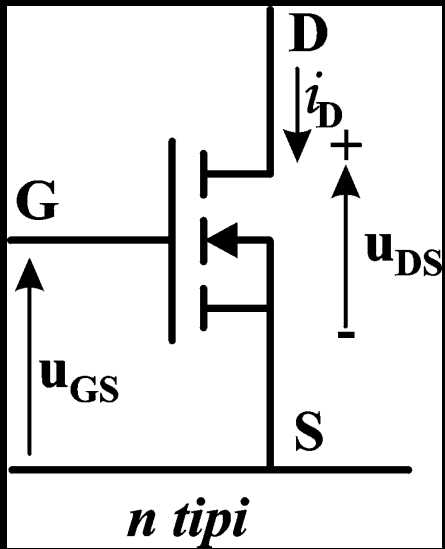
The Bipolar Junction Transistor (BJT)



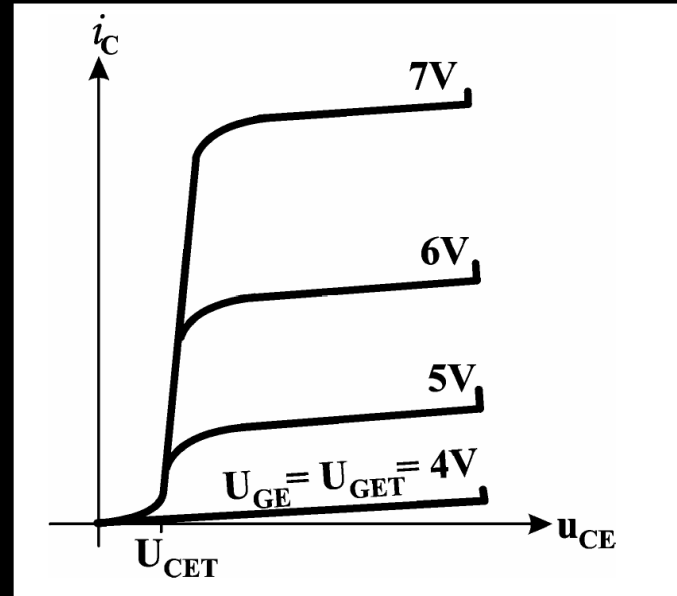
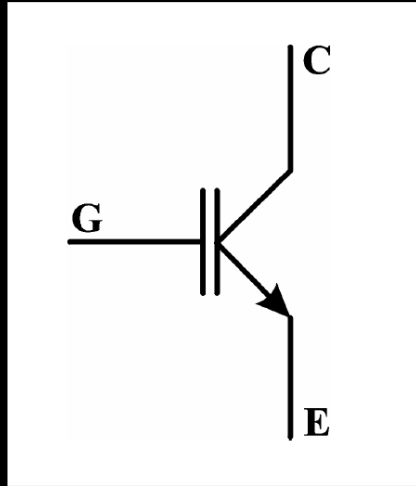
The Bipolar Junction Transistor (BJT)

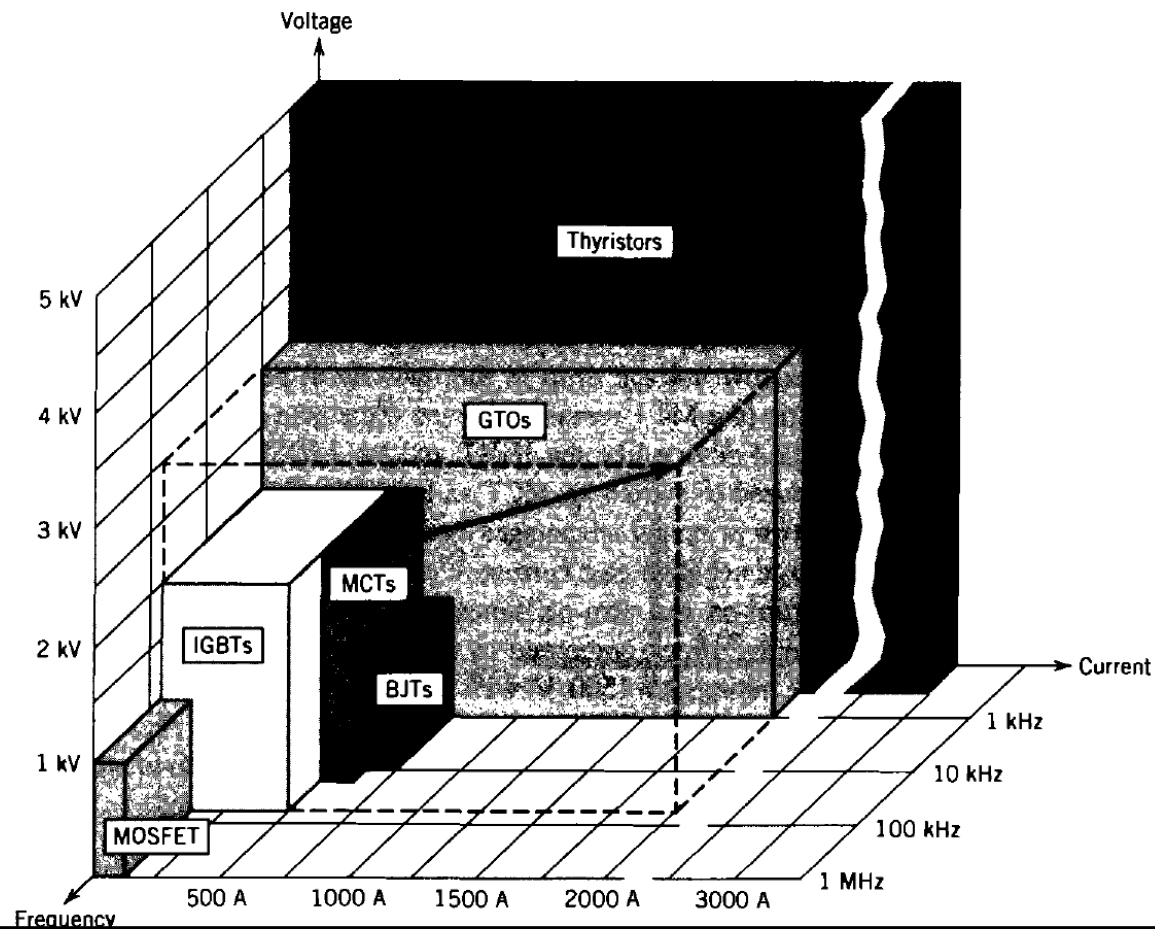


(MOSFET)



(IGBT)





<i>Device</i>	<i>Power Capability</i>	<i>Switching Speed</i>
BJT/MD	Medium	Medium
MOSFET	Low	Fast
GTO	High	Slow
IGBT	Medium	Medium
MCT	Medium	Medium