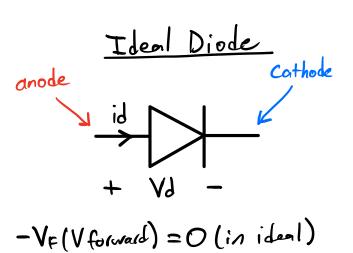
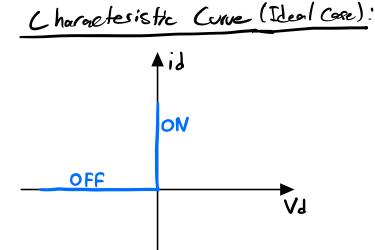
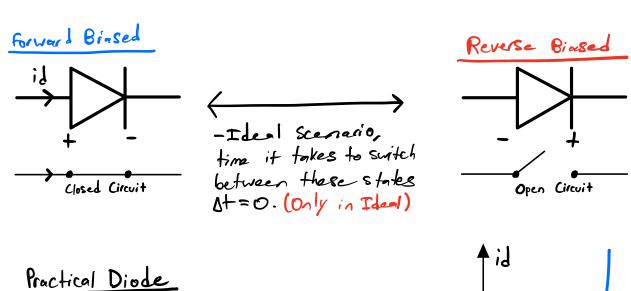
## Diodes





## Ideal Diole (Modes of Opesation):



- Forward Voltage Voltage
drop across the diste when
its conducting and current
is flowing in the positive direction

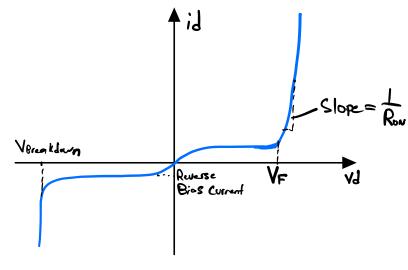
-Reverse-Break-Down Voltage. -On-Resistances

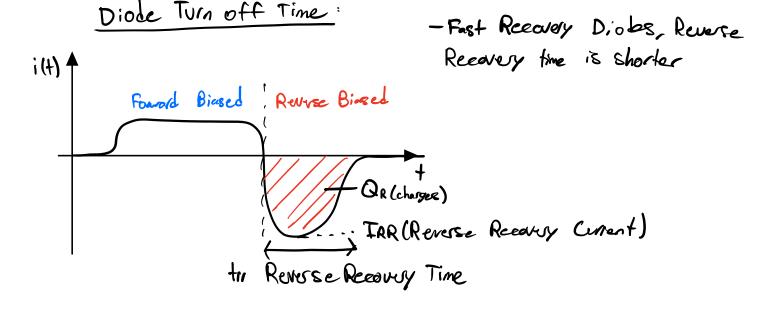
The Voltage When the diode is

reverse birsed where it will - Turn on/off times

begin conducting in the verses

breetien (ie: 1000V) - Donners diode





Losses

Conduction --> Pront = VF·IF·D (Dominant at Low Prequescies)
Pront = ID2. Roson

Switching - (Increases with turn ON/turn OFF time)
(Increases with Switching Frequency)

PSW = (Losser per switch (Q)) (Time of one period)
ie: How many switches per second