d) Explain the thermal runaway phenomenon for BJT

The increase in the collector current increases the power dissipated at the collector junction.
This in turn further increases the temperature of the junction and hence increases in the collector current. The process is cumulative and it is referred to as self-heating.

The excess heat produced at the collector base junction may even burn and destroy the transistor. This situation is called 'Thermal runaway' of the transistor.

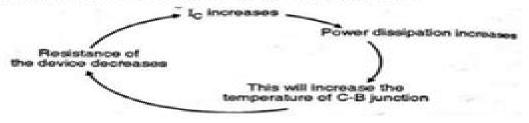


Fig. Thermal Runway

Q.3) Attempt any THREE of the following.

- 12 Marks
- a) Sketch input and output characteristics of CE configuration. Label various regions on characteristics.

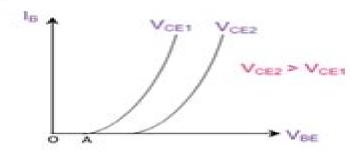


Fig. Input characteristics of CE configuration.

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