Turn-off, low $I_g$
Turn-off, High $I_g$

![Graph showing turn-off characteristics with $I_g = 1A$.]

(Note: Graph showing voltage and current relationships during turn-off, highlighting key parameters and time intervals.)

**Equations and Expressions:**

- $I_{off} = I_{on}$
- $t_{on} = \frac{V_{CC}}{I_c}$
- $t_{off} = \frac{V_{CC}}{I_c}$
- $V_{on} < V_{off}$
- $I_{peak} = I_{on} + I_{off}$

**Legend:**

- $I_{on}$: On current
- $I_{off}$: Off current
- $V_{CC}$: Supply voltage
- $I_c$: Collector current
- $t_{on}$: Turn-on time
- $t_{off}$: Turn-off time
No power in synchronous desire