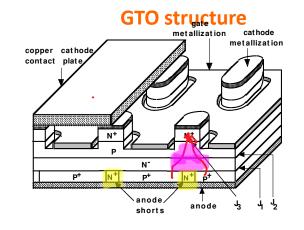


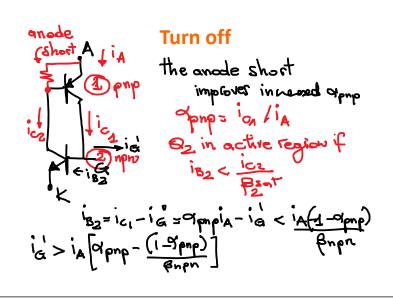


GTOs are turned off with negative ig pulse

- 1. Highly interdigitated structure (1K cells)
- 2. Cathode islands
- 3. Anode short







Turn off

- + To reduce turn off $i_{\text{G}'}$ we must suppress α_{pnp}
- In order to suppress $\alpha_{_{\text{pnp}}}$ we can
 - Use anode short \rightarrow thyristor does not block V_{AK} < 0
 - Increase thickness and recombination in drift region $\rightarrow V_{\rm ON}$ increases
- Typically

$$i_G'\approx \frac{1}{3}\div \frac{1}{5}i_A$$

