

Apply Biasing

With the Gate terminal OPEN, both transistors are OFF. As the applied voltage increases, there will be a "breakdown" that causes both transistors to conduct (saturate) making $I_F >$ 0 and $V_{AK} = 0$.



 $V_{Breakdown} = V_{BR(F)}$

Static I-V Characteristics of SCR



Apply a Gate Current



Latching & Holding Current

Latching current

Minimum anode current that must flow through the SCR in order for it to stay on initially after gate signal is removed.

Holding Current

Minimum value of anode current, required to maintain SCR in conducting state.