



Circuit for extended softstart time for most of the regulators/controllers that have an accessible COMP node.

With the power being applied at the input, the C<sub>ss</sub> will be charged by the current that is dependant on V<sub>be</sub> and R<sub>2</sub>. While this cap is being charged, the Collector pulls down on the COMP node and limits the amount of switch current. Once this cap is charged, the part would behave normally.

$$t_{ss} = C_{out} \cdot V_{out} / I_{ss}$$

$$I_{ss} = V_{be} / R_2$$

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