





TENNESSEE

Т

Sync-Buck ZVS Condition

for 2US torn-on of Q1.

$$F_{4} = \int M^{2} + J^{2}$$

$$M + F_{4} \stackrel{i}{=} 1$$

$$M + \int M^{2} + J^{2}_{5} \stackrel{i}{=} 1$$

$$M + \int M^{2} + J^{2}_{5} \stackrel{i}{=} 1$$

$$M + \int (\frac{1}{\sqrt{3}})^{2} + (\frac{1}{\sqrt{3}}R_{0})^{2} \stackrel{i}{=} 1$$

$$\int V_{2} + J^{2}_{5}C_{500} \stackrel{i}{=} (V_{2} - V)^{2}, \quad R_{0} = \sqrt{\frac{1}{2}C_{50}}$$

$$C_{50}V^{2} + LJ^{2}_{5} \stackrel{i}{=} 2C_{500}(V_{2} - V)^{2}, \quad R_{0} = \sqrt{\frac{1}{2}C_{50}}$$

$$\int \frac{1}{2}LJ^{2}_{5} \stackrel{i}{=} \frac{1}{2}C_{500}(V_{2} - V)^{2} - \frac{1}{2}C_{500}V^{2}$$

$$M = \int V_{1} M^{2} + V_{1} + V_{1} + V_{2} + V_{$$

Sync-Buck State Plane (Ring out)

