

METHOD AND APPARATUS FOR REDUCING OVERSHOOT AND
UNDERSHOOT USING A RECONFIGURABLE INDUCTOR FOR SWITCHING MODE
VOLTAGE REGULATOR

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ABSTRACT

10 An apparatus and methods for reducing overshoot and undershoot using a reconfigurable inductor in a switching voltage regulator. Specifically, the switching voltage regulator includes a reconfigurable inductor, the reconfigurable inductor has a conductive control ring, and the conductive control ring has an adjustable enclosed area controlled by at least a first switch, wherein the reconfigurable inductor has a varying inductance based on a state of at least the first switch and the adjustable enclosed area of the conductive control ring is shown.

Fig. 3