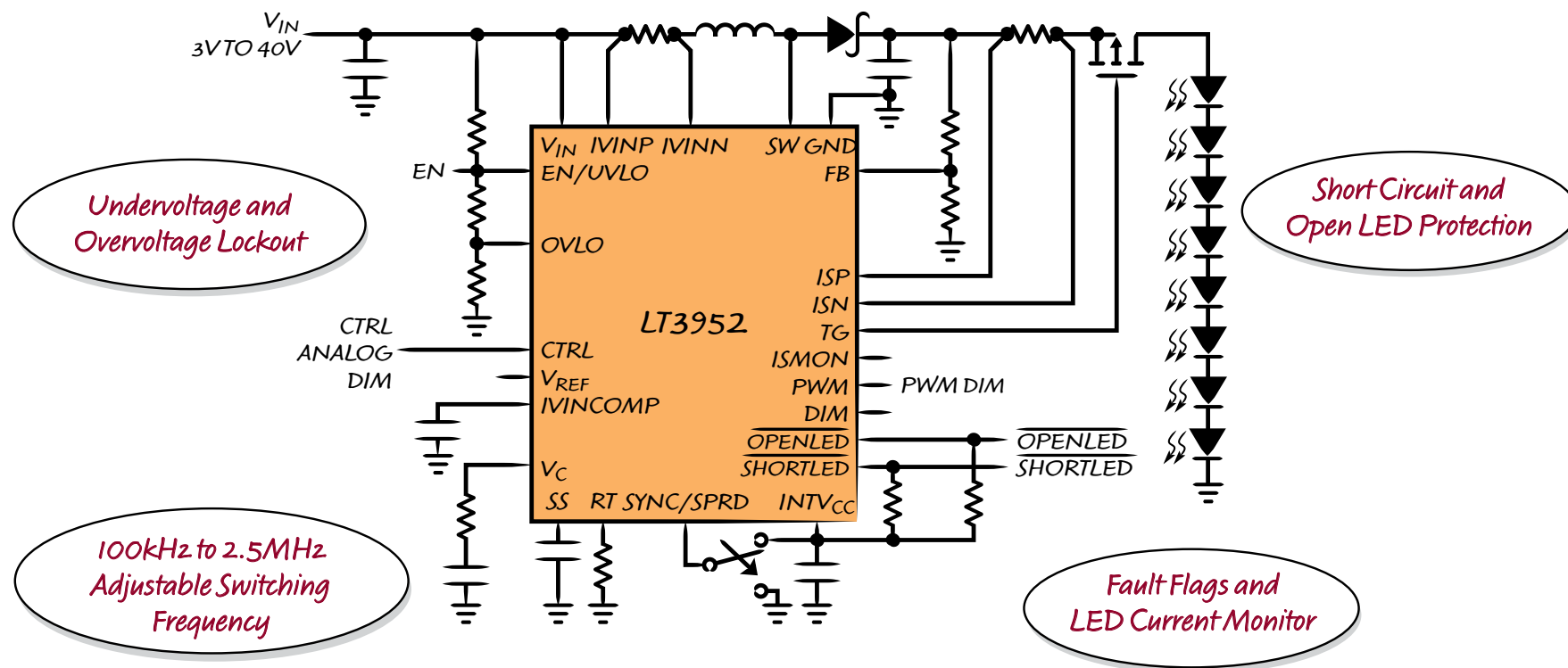


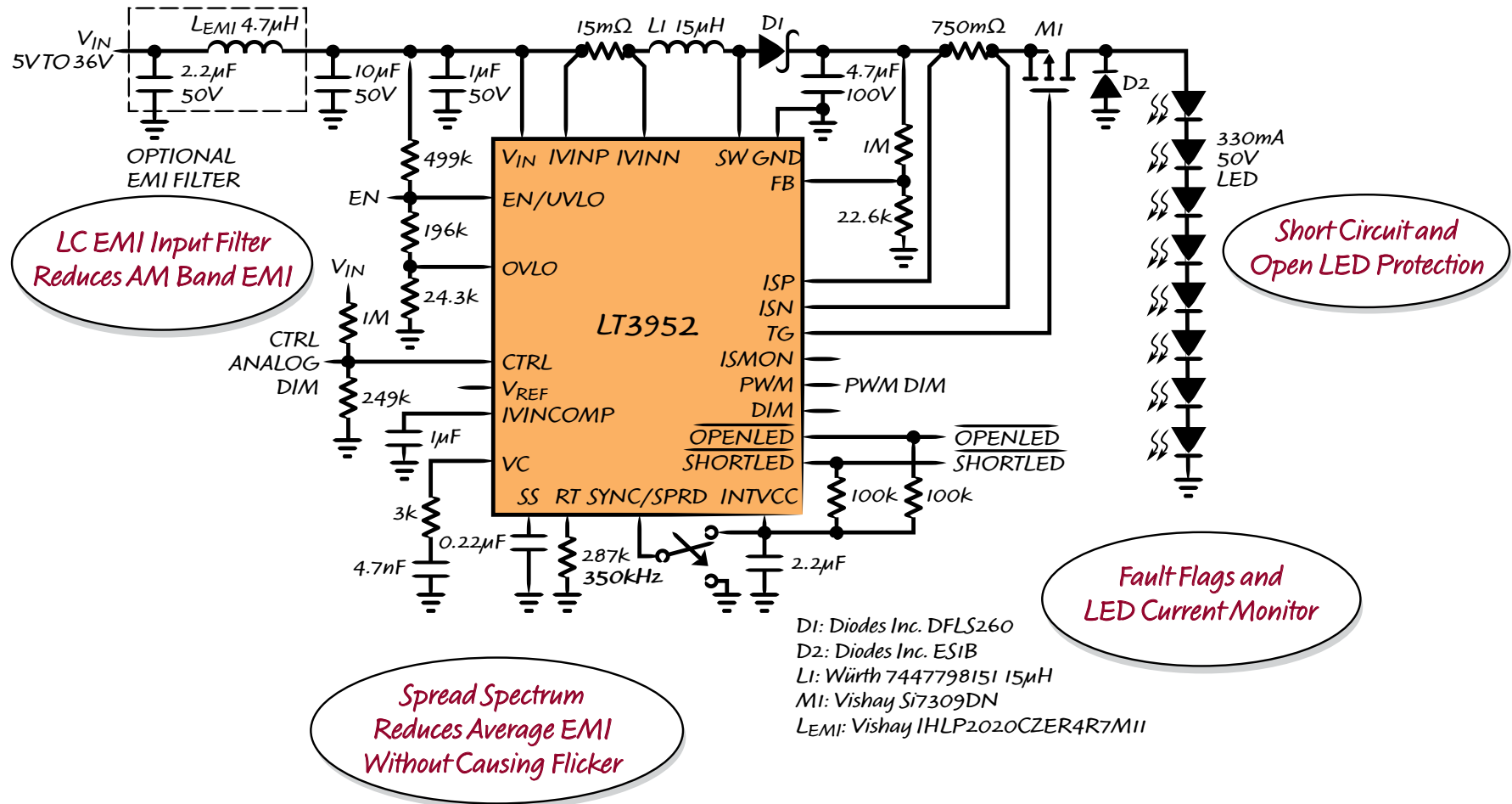
60V LED Driver with Internal 4A Switch



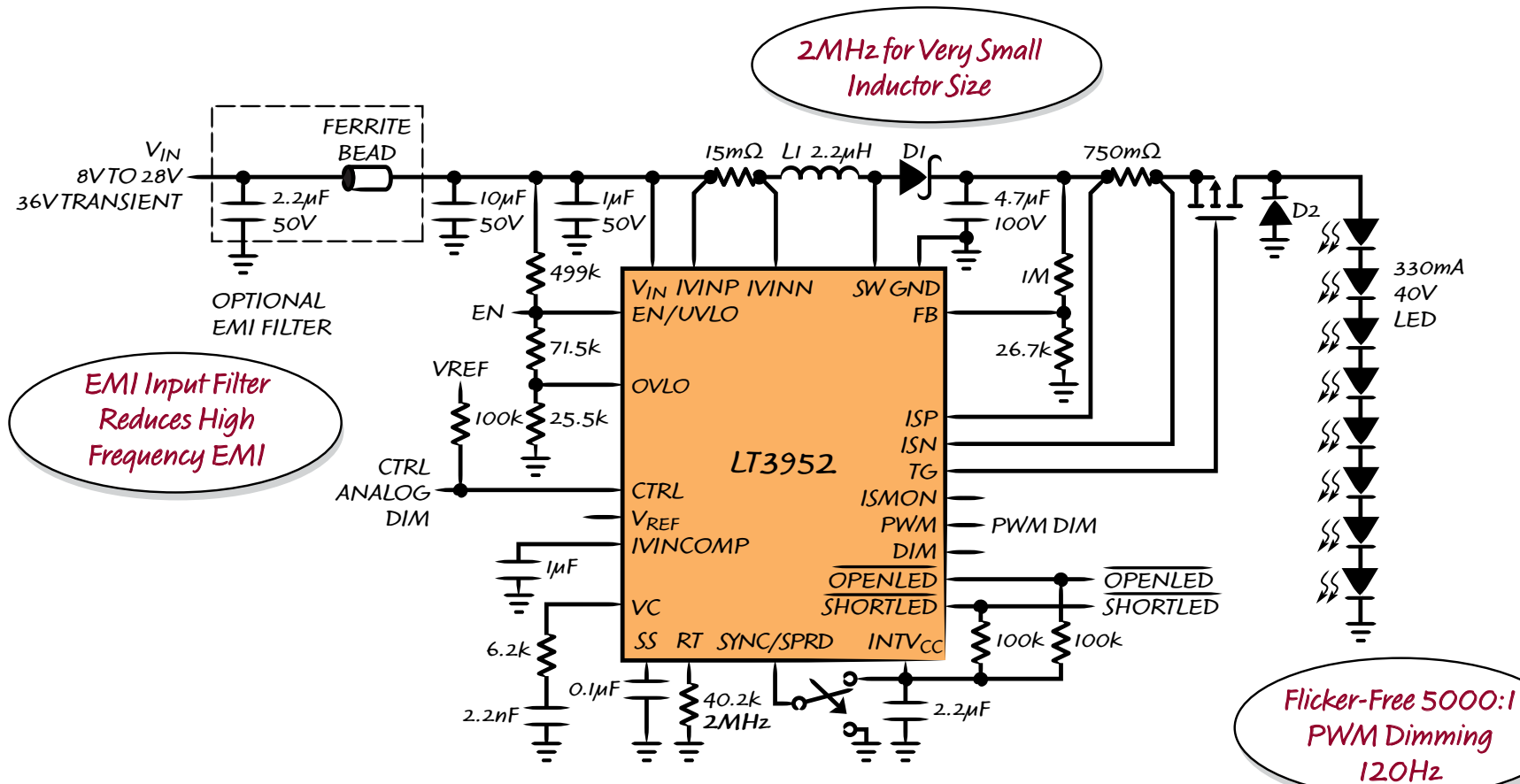
- Boost, Buck Mode, Buck-Boost, Boost-Buck, SEPIC Topologies
- Pseudorandom Spread-Spectrum Frequency Modulation
- High Flicker-Free PWM Dimming Ratio
- Up to 60V Output

50V 330mA 350kHz Automotive Boost LED Driver

$$V_{IN} < V_{LED}$$



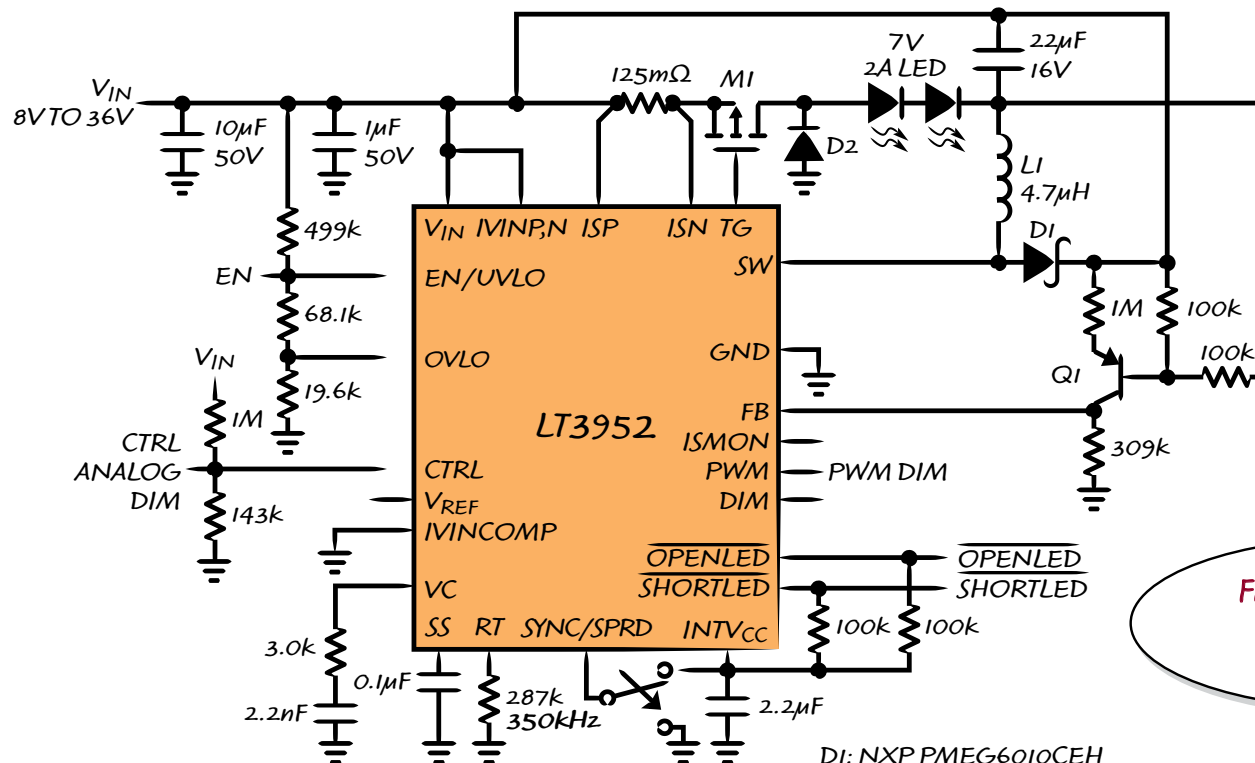
40V 330mA 2MHz Automotive Boost LED Driver



- 2MHz fundamental is above AM band
- 350kHz and 2MHz automotive applications

DI: NXP PMEG6010CEH
 D2: Diodes Inc. ES1B
 LI: Würth L74437324022 2.2μH
 MI: Vishay Si2307DS

2A Buck Mode LED Driver with 4000:1 PWM Dimming



Short Circuit and
Open LED Protection

Flicker-Free 4000:1
PWM Dimming
120Hz

Up to 91% Efficiency

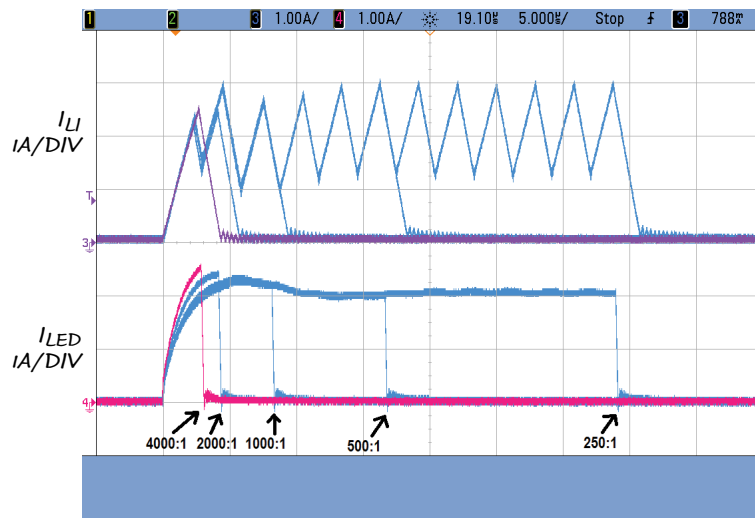
DI: NXP PMEG6010CEH
D2: Diodes Inc. ES1A
LI: Würth 74437346047 4.7 μ H
MI: Vishay Si2307DS
Q1: Zetex FMMT591A

- $V_{IN} > V_{LED}$
- 350kHz and 2MHz automotive applications
- Daytime running lights and spotlights

High Dimming Ratio Flicker-Free PWM Dimming

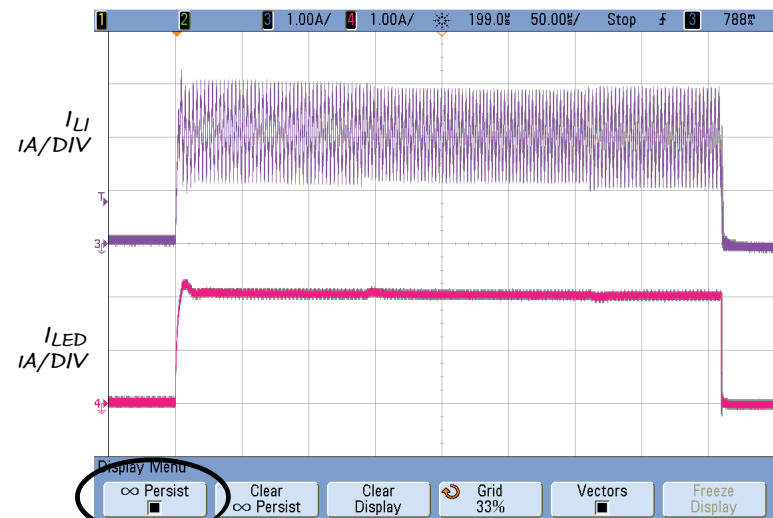
12V_{IN} to 6V 2A LED 350kHz Buck Mode Example

PWM Dimming at 120Hz



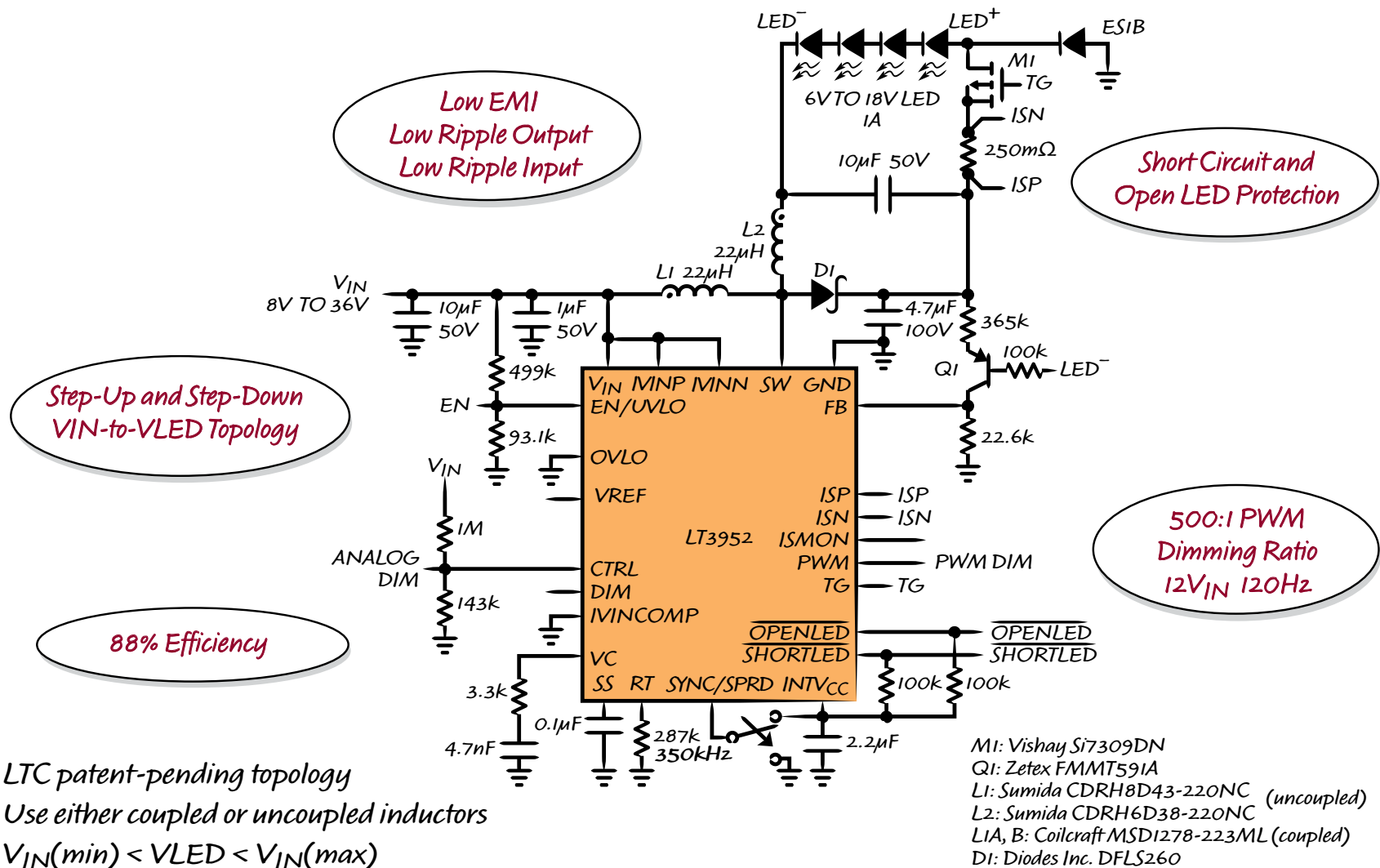
- 350kHz constant frequency *SSFM = OFF*
- Up to *4000:1* PWM dimming ratio 120Hz
- >5000:1 dimming ratio at 2MHz

20:1 PWM Dimming at 120Hz



- 0 to +25% pseudorandom *SSFM = ON*
- Infinite persist scope setting
- Patent-pending *flicker-free* PWM dimming

Low Ripple 18V 1A Boost-Buck LED Driver



- LTC patent-pending topology
- Use either coupled or uncoupled inductors
- $V_{IN(min)} < V_{LED} < V_{IN(max)}$

LT3952 60V LED Driver With Internal 4A Switch

- *Compact LED Driver*
- *Versatile*
- *Automotive LED Light*