

**Smart LED Driver IC with Hysteric Output
Current Sensing****General Description**

The KIC3521F is an average current mode control LED driver IC with KEC's proprietary direct output current sensing scheme. Since this control IC uses hysteresis output current control, it does not produce a peak-to-average error, and greatly improves current accuracy, line and load regulation of LED current without any need for loop compensation. Unlike other constant off-time driver ICs, the IC always monitors the output current even under switch-off condition. Therefore the output current shows a minimal error regardless of changes such as input voltage, output current, temperature and the number of LEDs.

KEC's patented driver topology for LEDs provides simple but robust output short circuit and open circuit protection.

The output current can be programmed by an internal fixed 250mV high threshold reference and three selectable low threshold reference, 40mV, 145mV and 210mV

FEATURES