

## **1A CMOS High Performance LDO Regulator**

The KIC3241series Low Dropout Linear Regulator is ideally suited for portable applications. It offers 1% initial accuracy, extremely-low dropout voltage(70mV at 300mA, 3.0V Output Type) and the large output current due to the built-in transistor with low on-resistance. The overcurrent protector prevents the load current from exceeding the capacitance of output transistor. The thermal shutdown circuit prevents damage caused by heat, The rush current control cicuit limits the excessive rush current during start-up. Designed specifically for handheld and battery-powered devices, The KIC3241series provides a TTL-logic-compatible ON/OFF control pin. When disabled, power consumption drops nearly to zero. The KIC3241series also works with low-ESR ceramic capacitors, reducing the amount of board space necessary for power applications, critical in handheld wireless devices. The Line transient response and load transient response of the KIC3241series are very excellent, thus ICs are very suitable for the power supply for hand-held communication equipment.

## **Applications**