

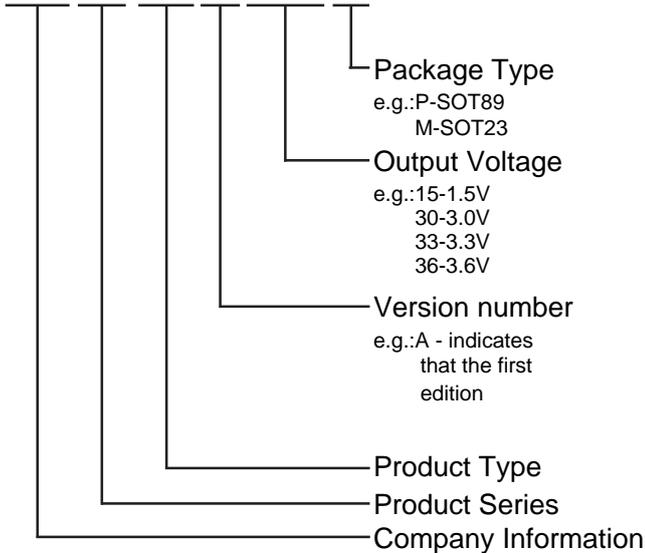
## Low-power, low dropout voltage regulator IC KF8166

### General Description

KF8166 series are highly precise, low power consumption, high voltage, positive voltage regulators manufactured using CMOS and laser trimming technologies. The series provides large currents with a significantly small dropout voltage. The series is compatible with low ESR ceramic capacitors. The current limiter's foldback circuit also operates as a short protect for the output current limiter and the output pin.

### Selection Guide

**KF 81 66 A XX X**



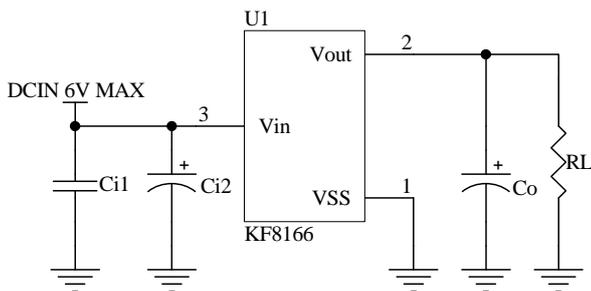
### Features

- Highly Accurate :  $\pm 2\%$
- Output voltage range : 1.5V~5.0V  
(selectable in 0.1V steps)
- Low power consumption : 8uA(TYP.)
- Large output current :300mA ( $V_{IN} = 4.3V$ ,  
 $V_{OUT} = 3.3V$ )
- Input voltage: up to 6 V
- Dropout voltage :  
0.2V at 100mA and 0.40V at 200mA
- Excellent Input Stability
- Be available to regulator and reference voltage
- Packages: SOT23 ,SOT23-3 ,SOT89-3 ,TO-92

### Typical Application

- Battery powered equipment
- Communication tools
- Mobile phones
- Portable games
- Portable AV systems
- Cameras, Video systems
- Reference voltage sources

### Typical Application Circuit



### Pin Configuration

