

# AT2263

## 150mA Low Noise / High PSRR Dual LDO Regulators



Immense Advance Tech.

### FEATURES

- $V_{IN}$  Range : 2.0V to 6.0V
- Low Dropout Voltage : 0.22V (Typ)  
( $V_{OUT}=3.3V, I_{OUT}=150mA$ )
- Output Current : 150mA
- Excellent Line Regulation : 0.02% / V(Typ)
- Output Voltage Accuracy :  $\pm 2.0\%$
- Low Supply Current : 80  $\mu A$  (Typ)
- Standby Mode : 0.1  $\mu A$  (Typ)
- Over Current Protection
- Short Circuit Protection
- High Ripple Rejection : 65dB @ 1KHz
- Fixed Output Voltage : 1.0V~4.8V
- Ceramic capacitors are recommend to be used with this IC :  $C_{IN}=C_{OUT}=1\mu F$

### APPLICATION

- Power source for portable communication equipment
- Power source for battery-powered equipment
- Cordless phones and radio communication equipment
- Cameras, Video recorders
- PDAs
- Mobile Phone

### DESCRIPTION

The AT2263 Series are dual voltage regulator ICs with high output voltage accuracy, low supply current, low dropout, and high ripple rejection by CMOS process. Each of these voltage regulator ICs consists of a voltage reference unit, an error amplifier, resistors for setting output voltage, a current limit circuit, short circuit protection and a chip enable circuit.

These ICs perform with low dropout voltage due to built-in transistor with low ON resistance, and a chip enable function prolongs the battery life of each system. The line transient response and load transient response of the AT2263 Series are excellent, thus these ICs are very suitable for the power supply for hand-held communication equipment.

The output voltage of these ICs is internally fixed with high accuracy. Since the package for these ICs is SOT-26 package, 2ch LDO regulators are included in each package, high density mounting of the ICs on boards is possible.

### TYPICAL APPLICATION CIRCUITS

