

## R1131x Series

### Low Voltage 300mA LDO

The R1131x Series are CMOS-based LDO regulators featuring 300mA output. The input voltage (V<sub>IN</sub>) is as low as Min. 1.4V and the output voltage can be set from 0.8V. The CE pin can switch the regulator into standby mode. Ceramic capacitors can be used. (Vouт ≥ 1.0V)

#### **FEATURES**

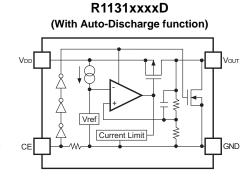
- Supply Current (Iss) ......Typ. 80μA (V<sub>IN</sub>=SET Vouτ+1V, Vouτ<1.8V) Typ. 60μA (Same as above, Vouτ≥1.8V)
- Standby Current (Istandby) ......Typ. 0.1μA (Same as above, in standby)
- Dropout Voltage (VDIF) ......Typ. 0.23V (IOUT=300mA, VOUT=2.8V)
- Ripple Rejection (RR).....Typ. 65dB (f=1kHz)
- Input Voltage Range (V<sub>IN</sub>)------1.4V to 6.0V
- Output Voltage Range (Vout)········· 0.8V to 3.3V (internally fixed)
- Output Voltage Accuracy -----± 2%
- Temp. coeff. of Output Voltage ......Typ. ± 100ppm/°C
- Line Regulation-----Typ. 0.01%/V
- Fold-back Protection Circuit------Current limit Typ. 50mA
- Auto-Discharge function ...... D Version
- Packages ......SON-6, SOT-23-5, HSON-6
- Ceramic capacitors can be used. ···1μF or more (Vouτ≥1.0V)

#### BLOCK DIAGRAMS

# R1131xxxxA ( CE pin "L" active)

# (CE pin "H" active)

R1131xxxxB



#### SELECTION GUIDES

Package	Quantity per Reel	Part No.		
SON-6	3,000 pcs	R1131Dxx1*-TR-F		
SOT-23-5	3,000 pcs	R1131Nxx1*-TR-F		
HSON-6	3,000 pcs	R1131Dxx2*-TR-F		

- xx : Specify the output voltage within the range 0.8V (08) to 3.3V (33) in 0.1V steps.
- Select the polarity of the CE pin from (A) "L" active, (B) "H" active or (D) "H" active with auto-discharge function.

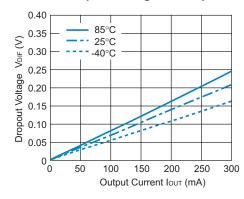
#### PACKAGES (Top View)

SON-6 SOT-23-5		SOT-23-5	HSON-6		
	* * * * * * * * * * * * * * * * * * * *	5 4 1 1 2 3		6 5 4	
1	V <sub>DD</sub>	1	V <sub>DD</sub>	1	V <sub>DD</sub>
2	NC	2	GND	2	NC
3	Vouт	3	CE or CE	3	Vout
4	NC	4	NC	4	NC
5	GND	5	Vouт	5	GND
6	CE or CE		_	6	CE or CE

#### \*) The tab and tab suspension leads on back side are substrate level (GND).

#### TYPICAL CHARACTERISTIC

#### R1131x33xx Dropout Voltage vs. Output Current



#### **APPLICATIONS**

- Power source for hand-held communication equipment, cameras, and VCRs
  Power source for battery-powered equipment
- Power source for home appliances

No FK-116-100119 CMOS LDO Regulator