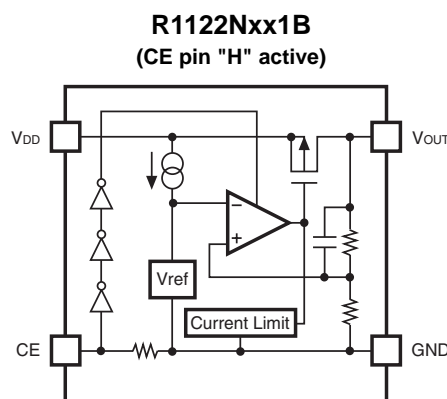
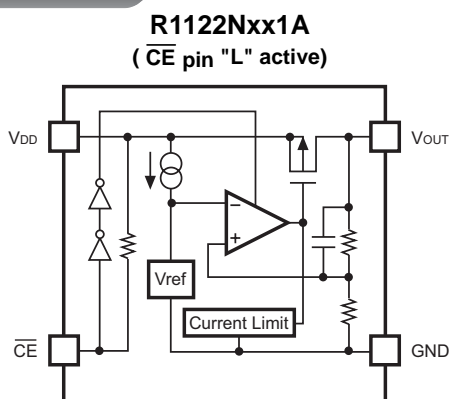


The R1122N Series are CMOS-based LDO regulators featuring 150mA output. High ripple rejection and excellent load transient response of the series make the product ideally suited for use in power source for hand-held communication equipment. The polarity of the CE pin can be selected. Ceramic capacitors can be used.

### FEATURES

- Supply Current ( $I_{SS}$ ) ..... Typ. 100 $\mu$ A ( $V_{IN} = \text{SET } V_{OUT} + 1.0\text{V}$ )
- Standby Current ( $I_{standby}$ ) ..... Typ. 0.1 $\mu$ A (Same as above, in standby)
- Dropout Voltage ( $V_{DIF}$ ) ..... Typ. 0.19V ( $I_{OUT} = 100\text{mA}$ ,  $V_{OUT} = 2.8\text{V}$ )
- Ripple Rejection (RR) ..... Typ. 80dB ( $f = 1\text{kHz}$ )
- Input Voltage Range ( $V_{IN}$ ) ..... 2.0V to 6.0V
- Output Voltage Range ( $V_{OUT}$ ) ..... 1.5V to 5.0V (internally fixed)
- Output Voltage Accuracy .....  $\pm 2\%$
- Temp. coeff. of Output Voltage ..... Typ.  $\pm 100\text{ppm}/^\circ\text{C}$
- Line Regulation ..... Typ. 0.05%/V
- Fold-back Protection Circuit ..... Current limit Typ. 30mA
- Package ..... SOT-23-5
- Replaceable with TK111, TK112 or TK113.
- Ceramic capacitors can be used. .... 2.2 $\mu$ F or more

### BLOCK DIAGRAMS



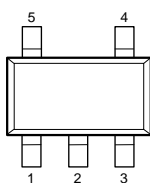
### SELECTION GUIDE

Halogen Free	Package	Q'ty per Reel	Part No.
H/F	SOT-23-5	3,000 pcs	R1122Nxx1*-TR-FE

- xx : Specify the output voltage within the range of 1.5V (15) to 5.0V (50) in 0.1V steps.  
 \* : Select the polarity of the CE pin from (A) "L" active or (B) "H" active.

### PACKAGE (Top View)

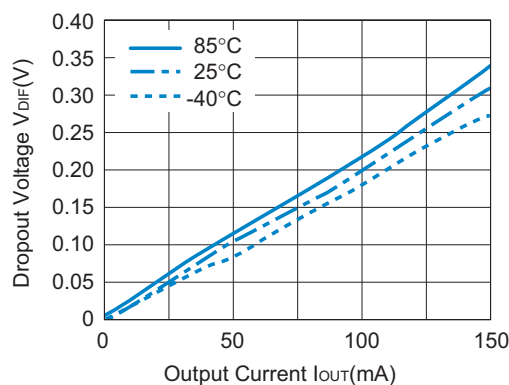
#### SOT-23-5



1	$V_{OUT}$
2	GND
3	$V_{DD}$
4	$\overline{\text{CE}}$ or CE
5	NC

### TYPICAL CHARACTERISTIC

#### R1122N301B Dropout Voltage vs. Output Current



### APPLICATIONS

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



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## RICOH COMPANY., LTD. Electronic Devices Company



■ Ricoh presented with the Japan Management Quality Award for 1999.  
Ricoch continually strives to promote customer satisfaction, and shares the achievements of its management quality improvement program with people and society.



■ Ricoh awarded ISO 14001 certification.

The Ricoh Group was awarded ISO 14001 certification, which is an international standard for environmental management systems, at both its domestic and overseas production facilities. Our current aim is to obtain ISO 14001 certification for all of our business offices.

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### RICOH COMPANY, LTD. Electronic Devices Company

● Higashi-Shinagawa Office (International Sales)  
3-32-3, Higashi-Shinagawa, Shinagawa-ku, Tokyo 140-8655, Japan  
Phone: +81-3-5479-2857 Fax: +81-3-5479-0502

### RICOH EUROPE (NETHERLANDS) B.V.

● Semiconductor Support Centre  
Prof. W.H.Keesomlaan 1, 1183 DL Amstelveen, The Netherlands  
P.O.Box 114, 1180 AC Amstelveen  
Phone: +31-20-5474-309 Fax: +31-20-5474-791

### RICOH ELECTRONIC DEVICES KOREA Co., Ltd.

11 floor, Haesung 1 building, 942, Daechidong, Gangnamgu, Seoul, Korea  
Phone: +82-2-2135-5700 Fax: +82-2-2135-5705

### RICOH ELECTRONIC DEVICES SHANGHAI Co., Ltd.

Room403, No.2 Building, 690#Bi Bo Road, Pu Dong New district, Shanghai 201203,  
People's Republic of China  
Phone: +86-21-5027-3200 Fax: +86-21-5027-3299

### RICOH COMPANY, LTD. Electronic Devices Company

● Taipei office  
Room109, 10F-1, No.51, Hengyang Rd., Taipei City, Taiwan (R.O.C.)  
Phone: +886-2-2313-1621/1622 Fax: +886-2-2313-1623



Ricoh completed the organization of the Lead-free production for all of our products. After Apr. 1, 2006, we will ship out the lead free products only. Thus, all products that will be shipped from now on comply with RoHS Directive.