

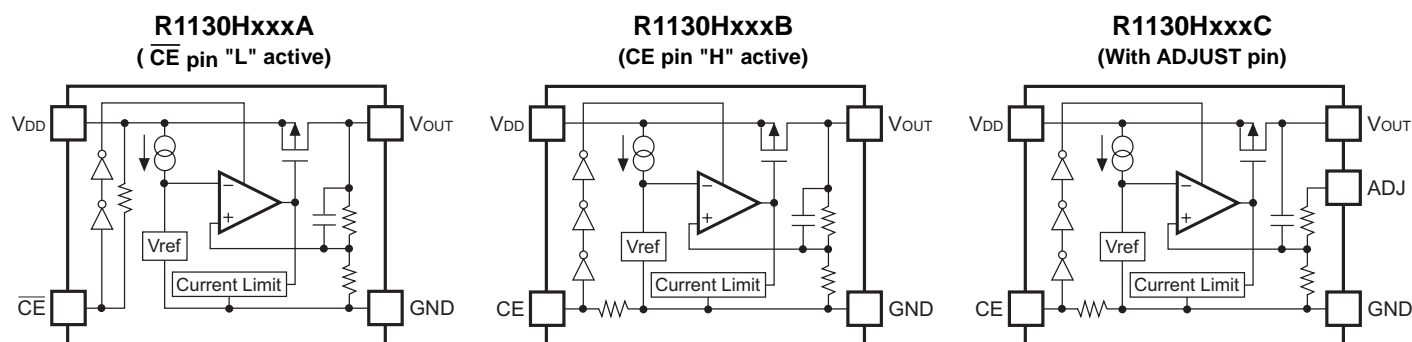
8V Input 300mA LDO with/without Adjust pin

The R1130H Series are CMOS-based LDO regulators featuring 300mA output. The input voltage (V_{IN}) is as high as Max. 8V (maximum rating of 9V). R1130H is available in two versions : the internally fixed output voltage type or the adjustable output voltage type by an external resistor. The CE pin can switch the regulator into standby mode.

FEATURES

- Supply Current (I_{SS}) Typ. 50 μ A (V_{IN} =SET V_{OUT} +1.0V)
- Standby Current ($I_{standby}$) Typ. 0.1 μ A (Same as above, in standby)
- Dropout Voltage (V_{DIF}) Typ. 0.25V (I_{OUT} =100mA, V_{OUT} =2.8V)
- Ripple Rejection (RR) Typ. 60dB (f =1kHz)
- Input Voltage Range (V_{IN}) 2.5V to 8.0V
- Output Voltage Range (V_{OUT}) 1.5V to 5.0V (internally fixed)
Externally specified with the ADJUST pin
(Reference Voltage 1.8V : C Version)
- Output Voltage Accuracy $\pm 2\%$
- Temp. coeff. of Output Voltage Typ. ± 100 ppm/ $^{\circ}$ C
- Line Regulation Typ. 0.1%/V
- Fold-back Protection Circuit Current limit Typ. 70mA (V_{OUT} \leq 3.9V)
Current limit Typ. 50mA (V_{OUT} \geq 4.0V)
- Packages SOT-89-5

BLOCK DIAGRAMS



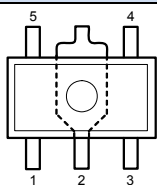
SELECTION GUIDES

Halogen Free	Package	Q'ty per Reel	Part No.
H/F	SOT-89-5	1,000 pcs	R1130Hxx1*-T1-FE

- xx : Specify the output voltage within the range of 1.5V (15) to 5.0V (50) in 0.1V steps. (C Version is fixed at 00.)
- * : Select the polarity of the CE pin from (A) "L" active, (B) "H" active, or (C) "H" active with ADJUST pin.

PACKAGES (Top View)

SOT-89-5

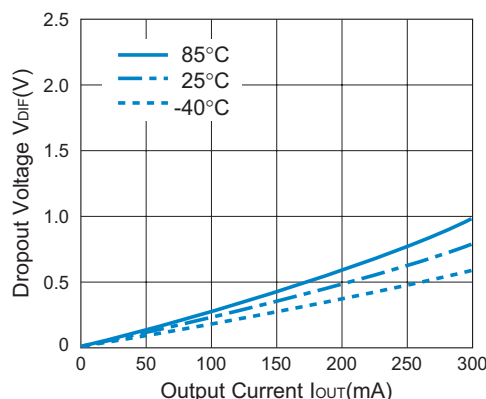


1	V_{OUT}
2	V_{DD}
3	GND
4	NC or ADJUST
5	\overline{CE} or CE

*) The tab and tab suspension leads on back side are substrate level (V_{DD}).

TYPICAL CHARACTERISTIC

R1130H331B Dropout Voltage vs. Output Current



APPLICATIONS

- Power source for CD/DVD drives
- Power source for hand-held communication equipment, cameras, and VCRs
- Power source for automotive application
- Power source for laptop personal computers
- Power source for battery-powered equipment



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Ricoh 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 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.