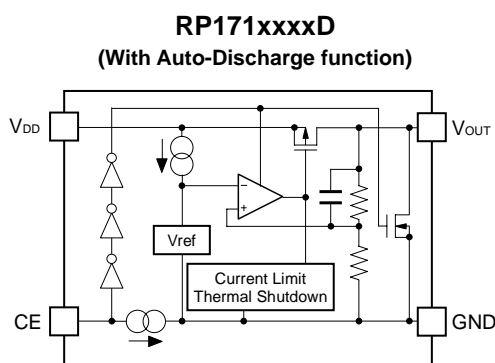
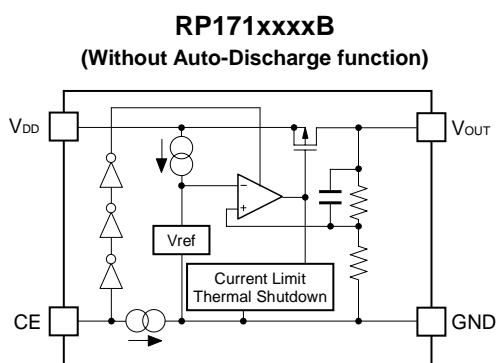


The RP171x Series are CMOS-based LDO regulators featuring 150mA output current. Due to the 10V maximum input voltage, RP171x can be used for 2 cell lithium-ion battery powered portable appliances and home appliances. RP171x has a fold-back protection circuit and a thermal shutdown circuit. SC-88A and SOT-23-5 packages are available.

FEATURES

- Supply Current (I_{SS}) Typ. 23 μ A ($V_{IN}=SET$ $V_{OUT}+1V$)
- Standby Current ($I_{standby}$) Typ. 0.1 μ A ($V_{IN}=10V$, $CE="L"$)
- Dropout Voltage (V_{DIF}) Typ. 0.4V ($I_{OUT}=150mA$, $V_{OUT}=2.8V$)
- Ripple Rejection (RR) Typ. 70dB ($f=1kHz$)
- Input Voltage Range (V_{IN}) 2.6V to 10V
- Output Voltage Range (V_{OUT}) 1.2V to 6.0V (internally fixed)
- Output Voltage Accuracy $\pm 1\%$
- Temp. coeff. of Output Voltage Typ. $\pm 80ppm/^{\circ}C$
- Line Regulation Typ. 0.02%/V
- Fold-back Protection Circuit Current limit Typ. 40mA
- Thermal Shutdown Circuit Stops at 165 $^{\circ}C$
- Auto-Discharge function D Version
- Packages SC-88A, SOT-23-5
- Ceramic capacitors can be used. ... 1 μ F or more

BLOCK DIAGRAMS



SELECTION GUIDES

Package	Quantity per Reel	Part No.
SC-88A	3,000 pcs	RP171Qxx2*-TR-FE
SOT-23-5	3,000 pcs	RP171Nxx1*-TR-FE

xx: Specify the output voltage within the range 1.2V (12) to 6.0V (60) in 0.1V steps.

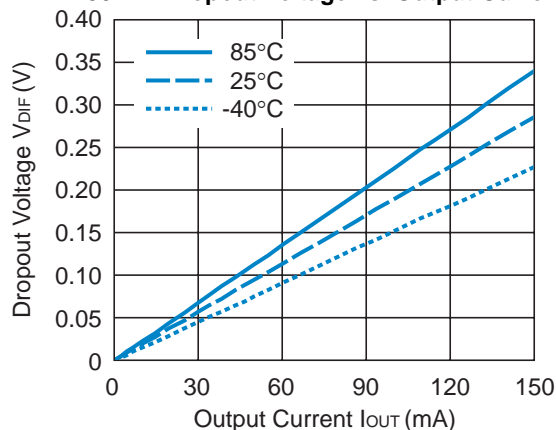
*: Select from (B) without auto-discharge function or (D) with auto-discharge function.

PACKAGES (Top View)

SC-88A	SOT-23-5																				
<table> <tr><td>1</td><td>CE</td></tr> <tr><td>2</td><td>NC</td></tr> <tr><td>3</td><td>GND</td></tr> <tr><td>4</td><td>VOUT</td></tr> <tr><td>5</td><td>VDD</td></tr> </table>	1	CE	2	NC	3	GND	4	VOUT	5	VDD	<table> <tr><td>1</td><td>VDD</td></tr> <tr><td>2</td><td>GND</td></tr> <tr><td>3</td><td>CE</td></tr> <tr><td>4</td><td>NC</td></tr> <tr><td>5</td><td>VOUT</td></tr> </table>	1	VDD	2	GND	3	CE	4	NC	5	VOUT
1	CE																				
2	NC																				
3	GND																				
4	VOUT																				
5	VDD																				
1	VDD																				
2	GND																				
3	CE																				
4	NC																				
5	VOUT																				

TYPICAL CHARACTERISTIC

RP171x30xx Dropout Voltage vs. Output Current



APPLICATIONS

- Power source for hand-held communication equipment and laptop personal computers
- Power source for digital SLRs and VCRs
- Power source for home appliances
- Power source for battery-powered equipment



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RICOH COMPANY, LTD. Electronic Devices Company

● Shin-Yokohama office (International Sales)
3-2-3, Shin-Yokohama, Kohoku-ku, Yokohama City, Kanagawa 222-8530, Japan
Phone: +81-45-477-1697 Fax: +81-45-477-1698

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.