

Now Available also for dual output LDO.  
RICOH offers four types of product line-up.



RICOH 150mA dual output LDO features greater variation now with the auto, manual and seamless mode-shift selections.

## Dual output 150mA LDO Regulator R5323x/R5325x/R5326x/R5328K Series

- Adjust different needs of different system status, active or standby.

### for a system in active

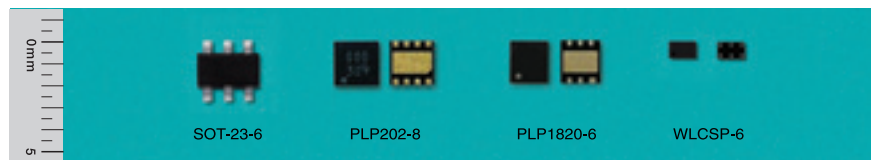
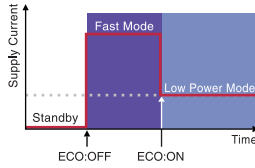
Fast Response, High Ripple Rejection

Meet demands of system status with a single chip.

**Manual ECO**

### for a system in standby

Low Supply Current

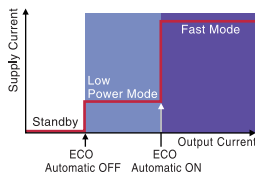


- Can get into "ECO-mode" easily but occupied an I/O port.

### In using couples of LDOs, it may cause shortage of I/O ports.

Shift LDO-mode without control pins.

**Automatic ECO**

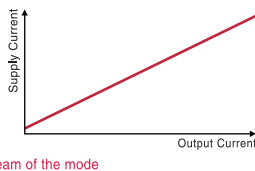


- Much less supply current with fine controlled LDO.

### Proportionate LDO supply current to load current.

Nonstep mode shift.

**Seamless**



\*Seamless : no seam of the mode

	R5323x	R5325x	New R5326x	New R5328K
Type	Normal 150mA LDO	Seamless 150mA LDO	Automatic ECO 150mA LDO	Manual ECO 150mA LDO
Supply Current(Typ.) (Low Power Mode/Fast Mode)	90 $\mu$ A	3 $\mu$ A (at no load)	5.5 $\mu$ A / 50 $\mu$ A	2 $\mu$ A / 75 $\mu$ A
Output Voltage Accuracy	$\pm$ 2%	$\pm$ 1%	$\pm$ 1%	$\pm$ 1%
Output Voltage Range	1.5V to 4.0V	1.2V to 4.0V	0.8V to 4.2V	0.8V to 4.0V
Input Voltage Range	2.0V to 6.0V	1.6V to 6.0V	1.4V to 6.0V	1.4V to 6.0V
Ripple Rejection(Typ.) (f=1kHz)	70dB	55dB	70dB	70dB
Low Dropout Voltage(Typ.) (I <sub>OUT</sub> =150mA, V <sub>OUT</sub> =2.8V)	0.22V	0.17V	0.16V	0.25V
Packages	WLCSP-6, SOT-23-6, PLP1820-6	SOT-23-6, PLP1820-6	WLCSP-6, SOT-23-6, PLP1820-6	PLP202-8

## A Great Variation of Dual LDOs

## R532x Series

For details, visit our website

<http://www.ricoh.com/LSI/AD/>

For further information please contact

RICOH COMPANY, LTD. Electronic Devices Company

Sales Offices

● Ricoh Company, Ltd.  
Electronic Devices Company  
Overseas Sales & Marketing Department  
3-2-3, SHin-Yokohama Kohoku-ku Yokohama City,  
Kanagawa 222-8530, Japan  
Phone: +81-45-477-1697 Facsimile: +81-45-477-1698

● Ricoh Corporation  
Technical Support & Marketing  
4 Results Way Cupertino, CA 95014, U.S.A.  
Phone: +1-408-346-4464  
Facsimile: +1-408-346-4575

● Ricoh Europe B.V.  
Semiconductor Support Center  
Koolhovenlaan 45, 1119 NB Schiphol-Rijk,  
The Netherlands  
Phone: +31-(0)20-5474644  
Facsimile: +31-(0)20-5474791

● Ricoh Electronic Devices Korea Co., Ltd.  
Technical Support & Marketing  
11 floor, Haesung 1 building, 942,  
Daechidong, Gangnamgu, Seoul, Korea  
Phone: +82-2-2135-5700  
Facsimile: +82-2-2135-5705

