

R5325K Series

Seamless Dual 150mA LDO

The R5325K Series are CMOS-based seamless dual output LDO regulators featuring 150mA output. Ricoh unique seamless technology smoothly changes its transient response according to output current. Thus, R5325K offers lower supply current in the smaller output current range compared to R5323x (Typ. 90μA). Additionally, R5325K can reach low supply current without changing to low power mode using the ECO function, which is required by R5326K (Typ. 5.5μA) and R5328K (Typ. 2.5μA). Standby mode and auto-discharge function are also available (see Selection Guide). Ceramic capacitors can be used.

FEATURES

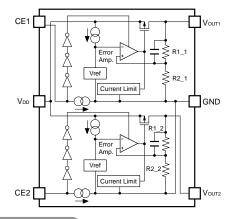
- Standby Current (Istandby)Typ. 0.1μA × 2 (ViN=6.0V, CE1/CE2="L")
- Dropout Voltage (VDIF) ·····Typ. 0.21V (IOUT=150mA, VOUT=2.8V)
- Ripple Rejection (RR).....Typ. 55dB (f=1kHz)
- Input Voltage Range (V_{IN})················ 1.5V to 6.0V
- Output Voltage Range (Vout).........1.2V to 4.0V* (internally fixed)
- Output Voltage Accuracy -----± 1%

- Temp. coeff. of Output VoltageTyp. ± 100ppm/°C
- Line Regulation.....Typ. 0.1%/V
- Fold-back Protection Circuit Current limit Typ. 50mA
- Auto-Discharge function ------B Version
- Package DFN(PLP)1820-6
- Ceramic capacitors can be used. ... 0.1 µF or more

BLOCK DIAGRAMS

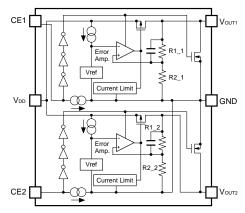
R5325KxxxA

(Without Auto-Discharge function)



R5325KxxxB

(With Auto-Discharge function)



SELECTION GUIDES

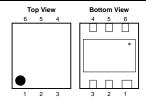
Halogen Free	Package	Q'ty per Reel	Part No.
H	DFN(PLP)1820-6	3,000 pcs	R5325Kxxx*-TR

: Specify a combination of output voltage for each output using serial numbers.

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

PACKAGES

DFN(PLP)1820-6

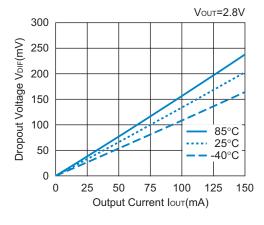


1	Vout2	
2	Vdd	
3	Vout1	
4	CE1	
5	GND	
6	CE2	

^{*)} The tab is substrate level (GND).

TYPICAL CHARACTERISTIC

R5235K (VR1/VR2) 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

No.EK-127-120403 Dual CMOS LDO Regulator

^{*)} For information about combination of output voltage, please check our website.



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RICOH COMPANY, LTD. Electronic Devices Company



■Ricoh presented with the Japan Management Quality Award for 1999.

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 pusiness offices.

http://www.ricoh.com/LSI/

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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.