# RICOH

# **R1141Q** Series

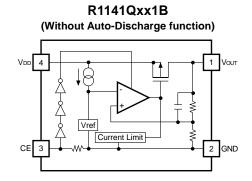
# Small 120mA LDO

The R1141Q Series are CMOS-based LDO regulators featuring 120mA output. The SC-82AB package, which is compact and easy to mount, is used. Standby mode and auto-discharge function are also available (see Selection Guide). Ceramic capacitors can be used.

#### **FEATURES**

- Supply Current (Iss) .....Typ. 90μA (VIN=SET VOUT+1V)
- Standby Current (Istandby) .....Typ. 0.1µA (Same as above, CE="L")
- Dropout Voltage (VDIF) ······Typ. 0.18V (Iout=120mA, Vout=2.8V)
- Ripple Rejection (RR).....Typ. 75dB (Vout ≤2.4V) (f=1kHz)
- Typ. 70dB (Vout≥2.5V) (f=1kHz)
- Input Voltage Range (VIN) .....2.2V to 6.0V
- Output Voltage Range (Vout) ...... 1.5V to 4.0V (internally fixed)

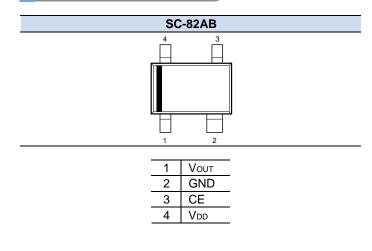
#### **BLOCK DIAGRAMS**



#### **SELECTION GUIDE**

Package	Quantity per Reel	Part No.
SC-82AB	3,000 pcs	R1141Qxx1*-TR-F

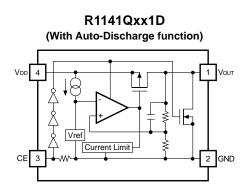
#### **PACKAGE (Top View)**



#### APPLICATIONS

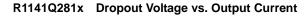
- Power source for hand-held communication equipment, cameras, and VCRs
  Power source for battery-powered equipment
- Power source for home appliances

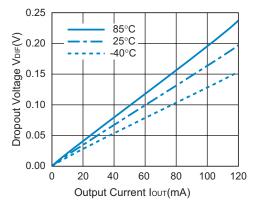
- Output Voltage Accuracy .....± 1.5% (2.0V < Vout ≤ 4.0V)</li>  $\pm$  30mV (1.5V  $\leq$  Vout  $\leq$  2.0V)
- Temp. coeff. of Output Voltage ......Typ. ± 100ppm/°C
- Line Regulation ...... Typ. 0.02%/V
- Fold-back Protection Circuit-----Current limit Typ. 40mA
- Package ------ SC-82AB
- Ceramic capacitors can be used. ...1µF to 2.2µF or more



- xx : Specify the output voltage within the range 1.5V (15) to 4.0V (40) in 0.1V steps
- : Select from (B) without auto-discharge function or (D) with auto-discharge function.

#### **TYPICAL CHARACTERISTIC**





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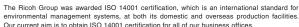
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Ricoh presented with the Japan Management Quality Award for 1999. Ricoh continually strives to promote customer satisfaction, and shares the achievements of its management quality improvement program with people and society.



Ricoh awarded ISO 14001 certification.





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.

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