

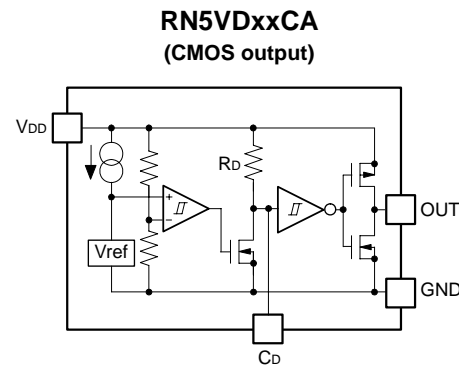
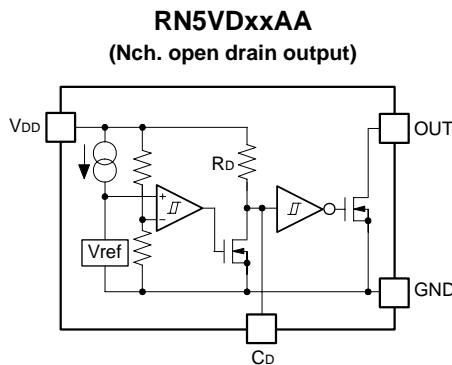
10V Input VD with Delay Function

The RN5VD Series are CMOS-based voltage detector ICs with the built-in output delay circuit. The delay time can be set with an external capacitor.

FEATURES

- Supply Current (I_{SS}) Typ. 1μA (V_{DD}=-V_{DET}+2.0V, RN5VD15x)
- Operating Voltage Range (V_{DD}) 0.7V to 10.0V
- Detector Threshold Range (-V_{DET}) 0.9V to 6.0V (internally fixed)
- Output Delay Typ. 100ms delay set with a 0.15μF external capacitor
- Reset Signal "L"
- Detector Threshold Accuracy ± 2.5%
- Temp. coeff. of Detector Threshold... Typ. ± 100ppm/°C
- Two Output Types Nch. Open Drain and CMOS
- Package SOT-23-5

BLOCK DIAGRAMS



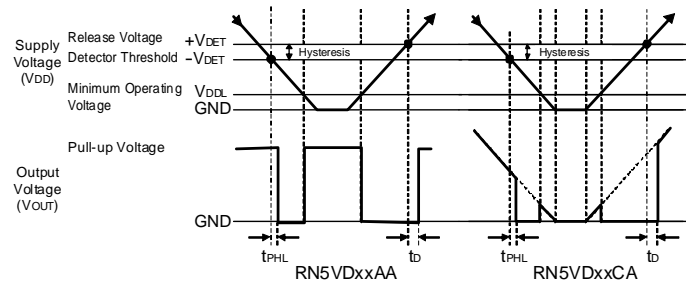
SELECTION GUIDE

Halogen Free	Package	Q'ty per Reel	Part No.
H/F	SOT-23-5	3,000 pcs	RN5VDxx*A-TR-FE

xx : Specify the detector threshold within the range of 0.9V (09) to 6.0V (60) in 0.1V steps.

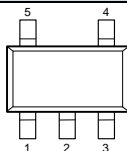
* : Select the output type from (A) Nch. open drain or (C) CMOS.

TIMING CHART



PACKAGE (Top View)

SOT-23-5



1	OUT
2	V _{DD}
3	GND
4	NC
5	C _D

HOW TO DETERMINE DELAY TIME

Let the capacity of an external capacitor "C_D" (F), the delay time (t_D) is found from the following equation:

$$t_D (s) = 0.69 \times 10^6 \times C_D$$

APPLICATIONS

- Microcontroller and logic circuit reset
- Battery checker
- Window comparator
- Wave shaping circuit
- Battery back-up circuit
- Power failure detector



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■ 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.