

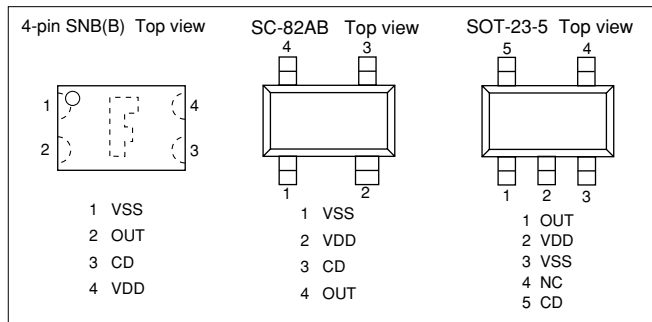
SUPER-SMALL PACKAGE HIGH-PRECISION VOLTAGE DETECTOR WITH DELAY CIRCUIT

S-809xxC series

The S-809xxC series is a family of high-precision voltage detectors, developed using CMOS technology. The detection voltage is fixed and its accuracy is $\pm 2.0\%$.

The release signal can be delayed by an external capacitor. Open-drain (Nch open-drain) output and Push-pull (CMOS output) are available.

PIN CONFIGURATIONS



FEATURES

- Ultra-low current consumption:
 - 1.0 μA typ. (Detection voltage 1.4 V typ. or below models, $V_{\text{DD}} = 2.0 \text{ V}$)
 - 1.1 μA typ. (Detection voltage 1.5 V typ. or above models, $V_{\text{DD}} = 3.5 \text{ V}$)
- Detection voltage accuracy: $\pm 2.0\%$
- Operating voltage range: 0.7 V to 10.0 V
- Hysteresis: 5% typ.
- Detection voltage: 1.3 V to 6.0 V (0.1 V steps)
- Output type: Active-low Open-drain (Nch open-drain) output
Active-low Push-pull (CMOS output)

APPLICATIONS

- Power supply monitor for portable applications such as notebook PCs, digital still cameras, PDAs, and cellular phones
- Constant voltage power supply monitor for cameras, video equipment, communication devices
- Power supply monitor for microcomputers and reset for CPUs

SELECTION GUIDE

Detection voltage range	Hysteresis width (typ.)	Open-drain (Nch open-drain) [low]			Push-pull (CMOS output) [low]		
		SC-82AB (3000/reel)	SOT-23-5 (3000/reel)	4-pin SNB(B) (5000/reel)	SC-82AB (3000/reel)	SOT-23-5 (3000/reel)	4-pin SNB(B) (5000/reel)
1.3V \pm 2.0%	0.065V	S-80913CNNB-G8H-T2	S-80913CNMC-G8H-T2	S-80913CNBB-G8H-TF	S-80913CLNB-G6H-T2	S-80913CLMC-G6H-T2	S-80913CLBB-G6H-TF
1.4V \pm 2.0%	0.070V	S-80914CNNB-G8J-T2	S-80914CNMC-G8J-T2	S-80914CNBB-G8J-TF	S-80914CLNB-G6J-T2	S-80914CLMC-G6J-T2	S-80914CLBB-G6J-TF
1.5V \pm 2.0%	0.075V	S-80915CNNB-G8K-T2	S-80915CNMC-G8K-T2	S-80915CNBB-G8K-TF	S-80915CLNB-G6K-T2	S-80915CLMC-G6K-T2	S-80915CLBB-G6K-TF
1.6V \pm 2.0%	0.080V	S-80916CNNB-G8L-T2	S-80916CNMC-G8L-T2	S-80916CNBB-G8L-TF	S-80916CLNB-G6L-T2	S-80916CLMC-G6L-T2	S-80916CLBB-G6L-TF
1.7V \pm 2.0%	0.085V	S-80917CNNB-G8M-T2	S-80917CNMC-G8M-T2	S-80917CNBB-G8M-TF	S-80917CLNB-G6M-T2	S-80917CLMC-G6M-T2	S-80917CLBB-G6M-TF
1.8V \pm 2.0%	0.090V	S-80918CNNB-G8N-T2	S-80918CNMC-G8N-T2	S-80918CNBB-G8N-TF	S-80918CLNB-G6N-T2	S-80918CLMC-G6N-T2	S-80918CLBB-G6N-TF
1.9V \pm 2.0%	0.095V	S-80919CNNB-G8P-T2	S-80919CNMC-G8P-T2	S-80919CNBB-G8P-TF	S-80919CLNB-G6P-T2	S-80919CLMC-G6P-T2	S-80919CLBB-G6P-TF
2.0V \pm 2.0%	0.100V	S-80920CNNB-G8Q-T2	S-80920CNMC-G8Q-T2	S-80920CNBB-G8Q-TF	S-80920CLNB-G6Q-T2	S-80920CLMC-G6Q-T2	S-80920CLBB-G6Q-TF
2.1V \pm 2.0%	0.105V	S-80921CNNB-G8R-T2	S-80921CNMC-G8R-T2	S-80921CNBB-G8R-TF	S-80921CLNB-G6R-T2	S-80921CLMC-G6R-T2	S-80921CLBB-G6R-TF
2.2V \pm 2.0%	0.110V	S-80922CNNB-G8S-T2	S-80922CNMC-G8S-T2	S-80922CNBB-G8S-TF	S-80922CLNB-G6S-T2	S-80922CLMC-G6S-T2	S-80922CLBB-G6S-TF
2.3V \pm 2.0%	0.115V	S-80923CNNB-G8T-T2	S-80923CNMC-G8T-T2	S-80923CNBB-G8T-TF	S-80923CLNB-G6T-T2	S-80923CLMC-G6T-T2	S-80923CLBB-G6T-TF
2.4V \pm 2.0%	0.120V	S-80924CNNB-G8U-T2	S-80924CNMC-G8U-T2	S-80924CNBB-G8U-TF	S-80924CLNB-G6U-T2	S-80924CLMC-G6U-T2	S-80924CLBB-G6U-TF
2.5V \pm 2.0%	0.125V	S-80925CNNB-G8V-T2	S-80925CNMC-G8V-T2	S-80925CNBB-G8V-TF	S-80925CLNB-G6V-T2	S-80925CLMC-G6V-T2	S-80925CLBB-G6V-TF
2.6V \pm 2.0%	0.130V	S-80926CNNB-G8W-T2	S-80926CNMC-G8W-T2	S-80926CNBB-G8W-TF	S-80926CLNB-G6W-T2	S-80926CLMC-G6W-T2	S-80926CLBB-G6W-TF
2.7V \pm 2.0%	0.135V	S-80927CNNB-G8X-T2	S-80927CNMC-G8X-T2	S-80927CNBB-G8X-TF	S-80927CLNB-G6X-T2	S-80927CLMC-G6X-T2	S-80927CLBB-G6X-TF
2.8V \pm 2.0%	0.140V	S-80928CNNB-G8Y-T2	S-80928CNMC-G8Y-T2	S-80928CNBB-G8Y-TF	S-80928CLNB-G6Y-T2	S-80928CLMC-G6Y-T2	S-80928CLBB-G6Y-TF
2.9V \pm 2.0%	0.145V	S-80929CNNB-G8Z-T2	S-80929CNMC-G8Z-T2	S-80929CNBB-G8Z-TF	S-80929CLNB-G6Z-T2	S-80929CLMC-G6Z-T2	S-80929CLBB-G6Z-TF
3.0V \pm 2.0%	0.150V	S-80930CNNB-G80-T2	S-80930CNMC-G80-T2	S-80930CNBB-G80-TF	S-80930CLNB-G60-T2	S-80930CLMC-G60-T2	S-80930CLBB-G60-TF
3.1V \pm 2.0%	0.155V	S-80931CNNB-G81-T2	S-80931CNMC-G81-T2	S-80931CNBB-G81-TF	S-80931CLNB-G61-T2	S-80931CLMC-G61-T2	S-80931CLBB-G61-TF
3.2V \pm 2.0%	0.160V	S-80932CNNB-G82-T2	S-80932CNMC-G82-T2	S-80932CNBB-G82-TF	S-80932CLNB-G62-T2	S-80932CLMC-G62-T2	S-80932CLBB-G62-TF
3.3V \pm 2.0%	0.165V	S-80933CNNB-G83-T2	S-80933CNMC-G83-T2	S-80933CNBB-G83-TF	S-80933CLNB-G63-T2	S-80933CLMC-G63-T2	S-80933CLBB-G63-TF
3.4V \pm 2.0%	0.170V	S-80934CNNB-G84-T2	S-80934CNMC-G84-T2	S-80934CNBB-G84-TF	S-80934CLNB-G64-T2	S-80934CLMC-G64-T2	S-80934CLBB-G64-TF
3.5V \pm 2.0%	0.175V	S-80935CNNB-G85-T2	S-80935CNMC-G85-T2	S-80935CNBB-G85-TF	S-80935CLNB-G65-T2	S-80935CLMC-G65-T2	S-80935CLBB-G65-TF
3.6V \pm 2.0%	0.180V	S-80936CNNB-G86-T2	S-80936CNMC-G86-T2	S-80936CNBB-G86-TF	S-80936CLNB-G66-T2	S-80936CLMC-G66-T2	S-80936CLBB-G66-TF
3.7V \pm 2.0%	0.185V	S-80937CNNB-G87-T2	S-80937CNMC-G87-T2	S-80937CNBB-G87-TF	S-80937CLNB-G67-T2	S-80937CLMC-G67-T2	S-80937CLBB-G67-TF
3.8V \pm 2.0%	0.190V	S-80938CNNB-G88-T2	S-80938CNMC-G88-T2	S-80938CNBB-G88-TF	S-80938CLNB-G68-T2	S-80938CLMC-G68-T2	S-80938CLBB-G68-TF
3.9V \pm 2.0%	0.195V	S-80939CNNB-G89-T2	S-80939CNMC-G89-T2	S-80939CNBB-G89-TF	S-80939CLNB-G69-T2	S-80939CLMC-G69-T2	S-80939CLBB-G69-TF
4.0V \pm 2.0%	0.200V	S-80940CNNB-G9A-T2	S-80940CNMC-G9A-T2	S-80940CNBB-G9A-TF	S-80940CLNB-G7A-T2	S-80940CLMC-G7A-T2	S-80940CLBB-G7A-TF
4.1V \pm 2.0%	0.205V	S-80941CNNB-G9B-T2	S-80941CNMC-G9B-T2	S-80941CNBB-G9B-TF	S-80941CLNB-G7B-T2	S-80941CLMC-G7B-T2	S-80941CLBB-G7B-TF
4.2V \pm 2.0%	0.210V	S-80942CNNB-G9C-T2	S-80942CNMC-G9C-T2	S-80942CNBB-G9C-TF	S-80942CLNB-G7C-T2	S-80942CLMC-G7C-T2	S-80942CLBB-G7C-TF
4.3V \pm 2.0%	0.215V	S-80943CNNB-G9D-T2	S-80943CNMC-G9D-T2	S-80943CNBB-G9D-TF	S-80943CLNB-G7D-T2	S-80943CLMC-G7D-T2	S-80943CLBB-G7D-TF
4.4V \pm 2.0%	0.220V	S-80944CNNB-G9E-T2	S-80944CNMC-G9E-T2	S-80944CNBB-G9E-TF	S-80944CLNB-G7E-T2	S-80944CLMC-G7E-T2	S-80944CLBB-G7E-TF
4.5V \pm 2.0%	0.225V	S-80945CNNB-G9F-T2	S-80945CNMC-G9F-T2	S-80945CNBB-G9F-TF	S-80945CLNB-G7F-T2	S-80945CLMC-G7F-T2	S-80945CLBB-G7F-TF
4.6V \pm 2.0%	0.230V	S-80946CNNB-G9G-T2	S-80946CNMC-G9G-T2	S-80946CNBB-G9G-TF	S-80946CLNB-G7G-T2	S-80946CLMC-G7G-T2	S-80946CLBB-G7G-TF
4.7V \pm 2.0%	0.235V	S-80947CNNB-G9H-T2	S-80947CNMC-G9H-T2	S-80947CNBB-G9H-TF	S-80947CLNB-G7H-T2	S-80947CLMC-G7H-T2	S-80947CLBB-G7H-TF
4.8V \pm 2.0%	0.240V	S-80948CNNB-G9J-T2	S-80948CNMC-G9J-T2	S-80948CNBB-G9J-TF	S-80948CLNB-G7J-T2	S-80948CLMC-G7J-T2	S-80948CLBB-G7J-TF
4.9V \pm 2.0%	0.245V	S-80949CNNB-G9K-T2	S-80949CNMC-G9K-T2	S-80949CNBB-G9K-TF	S-80949CLNB-G7K-T2	S-80949CLMC-G7K-T2	S-80949CLBB-G7K-TF
5.0V \pm 2.0%	0.250V	S-80950CNNB-G9L-T2	S-80950CNMC-G9L-T2	S-80950CNBB-G9L-TF	S-80950CLNB-G7L-T2	S-80950CLMC-G7L-T2	S-80950CLBB-G7L-TF
5.1V \pm 2.0%	0.255V	S-80951CNNB-G9M-T2	S-80951CNMC-G9M-T2	S-80951CNBB-G9M-TF	S-80951CLNB-G7M-T2	S-80951CLMC-G7M-T2	S-80951CLBB-G7M-TF
5.2V \pm 2.0%	0.260V	S-80952CNNB-G9N-T2	S-80952CNMC-G9N-T2	S-80952CNBB-G9N-TF	S-80952CLNB-G7N-T2	S-80952CLMC-G7N-T2	S-80952CLBB-G7N-TF
5.3V \pm 2.0%	0.265V	S-80953CNNB-G9P-T2	S-80953CNMC-G9P-T2	S-80953CNBB-G9P-TF	S-80953CLNB-G7P-T2	S-80953CLMC-G7P-T2	S-80953CLBB-G7P-TF
5.4V \pm 2.0%	0.270V	S-80954CNNB-G9Q-T2	S-80954CNMC-G9Q-T2	S-80954CNBB-G9Q-TF	S-80954CLNB-G7Q-T2	S-80954CLMC-G7Q-T2	S-80954CLBB-G7Q-TF
5.5V \pm 2.0%	0.275V	S-80955CNNB-G9R-T2	S-80955CNMC-G9R-T2	S-80955CNBB-G9R-TF	S-80955CLNB-G7R-T2	S-80955CLMC-G7R-T2	S-80955CLBB-G7R-TF
5.6V \pm 2.0%	0.280V	S-80956CNNB-G9S-T2	S-80956CNMC-G9S-T2	S-80956CNBB-G9S-TF	S-80956CLNB-G7S-T2	S-80956CLMC-G7S-T2	S-80956CLBB-G7S-TF
5.7V \pm 2.0%	0.285V	S-80957CNNB-G9T-T2	S-80957CNMC-G9T-T2	S-80957CNBB-G9T-TF	S-80957CLNB-G7T-T2	S-80957CLMC-G7T-T2	S-80957CLBB-G7T-TF
5.8V \pm 2.0%	0.290V	S-80958CNNB-G9U-T2	S-80958CNMC-G9U-T2	S-80958CNBB-G9U-TF	S-80958CLNB-G7U-T2	S-80958CLMC-G7U-T2	S-80958CLBB-G7U-TF
5.9V \pm 2.0%	0.295V	S-80959CNNB-G9V-T2	S-80959CNMC-G9V-T2	S-80959CNBB-G9V-TF	S-80959CLNB-G7V-T2	S-80959CLMC-G7V-T2	S-80959CLBB-G7V-TF
6.0V \pm 2.0%	0.300V	S-80960CNNB-G9W-T2	S-80960CNMC-G9W-T2	S-80960CNBB-G9W-TF	S-80960CLNB-G7W-T2	S-80960CLMC-G7W-T2	S-80960CLBB-G7W-TF