SEIKO INSTRUMENTS Voltage Detectors

RoHS Compliant This product is RoHS compliant.

SII HIGH PRECISION VOLTAGE DETECTORS

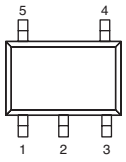
S-1000 Series

The S-1000 series is a series of high-precision voltage detectors developed using CMOS process. The detection voltage is fixed internally with an accuracy of ±1.0%. It operates with low current consumption of 350nA typ.

- Ultra-low current consumption 350nA typ. (VDD = detection voltage + 1.5V)
- High-precision detection voltage ±1.0%
- Operating voltage range 0.95 to 5.5V
- Hysteresis characteristics 5% typ.

SOT-23-5

Top View



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Seiko Part No.	Package Type	Output Form	Detection Voltage (V)	Hysteresis Width (V) (Typ.)	Current Consumption (μA) (Typ.)	Price Each 1	100	500	1000
Surface Mount										
628-1000N27-M5-G	S-1000N27-M5T1G	SOT-23-5	N-Ch open	2.5	0.050	350 (VDD = -VDET(S)+1.5V)	.40	.36	.32	.29

S-801 Series

The S-801 series is a series of high-precision voltage detectors with a built-in delay time generator of fixed time developed using CMOS process. The detection voltage is fixed internally, with an accuracy of ±2.0%. Internal oscillator and counter timer can delay the release signal without external parts.

- Ultra-low current consumption: 1.3μA Typ. (at VDD = 3.5V)
- High-precision detection voltage: ±2.0%
- Delay times: 100ms Typ.
- ON/OFF switch of delay time (DS pin)
- Operating voltage range: 0.95V to 10.0V
- Detection voltage: 2.2V to 6.0V (0.1V step)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Seiko Part No.	Package Type	Output Form	Detection Voltage (V)	Hysteresis Width (V) (Typ.)	Current Consumption (μA) (Typ.)	Price Each 1	100	500	1000
Surface Mount										
628-80125BLM-G	S-80125BLMC-JEKT2G	SOT-23-5	CMOS	2.5	0.06	1.3 (VDD = 3.5V)	.48	.43	.383	.352
628-80127BLM-G	S-80127BLMC-JEMT2G	SOT-23-5	CMOS	2.7	0.06	1.5 (VDD = 4.5V)	.48	.43	.383	.352
628-80130BLM-G	S-80130BLMC-JEPT2G	SOT-23-5	CMOS	3	0.06	1.5 (VDD = 4.5V)	.48	.43	.383	.352
628-80130BNM-G	S-80130BNMC-JGPT2G	SOT-23-5	N-Ch open	3	0.06	1.5 (VDD = 4.5V)	.48	.43	.38	.35

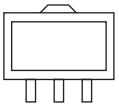
S-808 Series

The S-808xxC series is a series of high-precision voltage detectors developed using CMOS process. The detection voltage is fixed internally with an accuracy of ±2.0%. Ultra-low current consumption and miniature package lineup can meet demand from the portable device applications.

- Ultra-low current consumption: 1.3μA Typ. (at VDD = 1.5V) (Products with detection voltage of 1.4V Typ. or less)
  0.8μA Typ. (at VDD = 3.5V) (Products with detection voltage of 1.5V Typ. or less)
- High-accuracy detection voltage: ±2.0%
- Operating voltage range: 0.65V to 5.0V (Products with detection voltage of 1.4V Typ. or less)
  0.95V to 10.0V (Products with detection voltage of 1.5V Typ. or less)
- Hysteresis characteristics: 5% Typ.

SOT-89-3

Top View



For quantities greater than listed, call for quote.

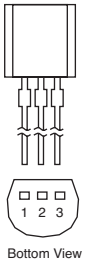
MOUSER STOCK NO.	Seiko Part No.	Package Type	Output Form	Detection Voltage (V)	Hysteresis Width (V) (Typ.)	Current Consumption (μA) (Typ.)	Price Each 1	100	500	1000
Surface Mount										
628-80820CNU-G	S-80820CNUA-B8FT2G	SOT-89-3	N-Ch open	2	0.1	0.8 (VDD = 3.5V)	.48	.43	.383	.352
628-80824CNU-G	S-80824CNUA-B8JT2G	SOT-89-3	N-Ch open	2.4	0.12	0.8 (VDD = 3.5V)	.48	.43	.38	.35
628-80825CLU-G	S-80825CLUA-B6KT2G	SOT-89-3	CMOS	2.5	0.125	0.8 (VDD = 3.5V)	.48	.43	.38	.35
628-80825CNM-G	S-80825CNMC-B8KT2G	SOT-23-5	N-Ch open	2.5	0.125	0.8 (VDD = 3.5V)	.48	.43	.38	.35
628-80825CNU-G	S-80825CNUA-B8KT2G	SOT-89-3	N-Ch open	2.5	0.125	0.8 (VDD = 3.5V)	.48	.43	.383	.352
628-80826CNU-G	S-80826CNUA-B8LT2G	SOT-89-3	N-Ch open	2.6	0.13	0.8 (VDD = 3.5V)	.48	.43	.383	.352
628-80827CNM-G	S-80827CNMC-B8MT2G	SOT-23-5	N-Ch open	2.7	0.135	0.9 (VDD = 4.5V)	.48	.43	.38	.35
628-80830CNM-G	S-80830CNMC-B8PT2G	SOT-23-5	N-Ch open	3	0.15	0.9 (VDD = 4.5V)	.48	.43	.38	.35
628-80830CLM-G	S-80830CLMC-B6PT2G	SOT-23-5	CMOS	3	0.15	0.9 (VDD = 4.5V)	.48	.43	.38	.35
628-80830CNU-G	S-80830CNUA-B8PT2G	SOT-89-3	N-Ch open	3	0.15	0.9 (VDD = 4.5V)	.48	.43	.38	.35
628-80833CNU-G	S-80833CNUA-B8ST2G	SOT-89-3	N-Ch open	3.3	0.165	0.9 (VDD = 4.5V)	.48	.43	.38	.35
628-80835CNU-G	S-80835CNUA-B8UT2G	SOT-89-3	N-Ch open	3.5	0.175	0.9 (VDD = 4.5V)	.48	.43	.38	.35
628-80840CNM-G	S-80840CNMC-B8ZT2G	SOT-23-5	N-Ch open	4	0.2	1.0 (VDD = 6.0V)	.48	.43	.38	.35
628-80840CNN-G	S-80840CNNB-B8ZT2G	SC-82AB	N-Ch open	4	0.2	0.9 (VDD = 6.0V)	.48	.43	.383	.352
628-80840CNU-G	S-80840CNUA-B8ZT2G	SOT-89-3	N-Ch open	4	0.2	1.0 (VDD = 6.0V)	.48	.43	.38	.35
628-80843CNU-G	S-80843CNUA-B84T2G	SOT-89-3	N-Ch open	4.3	0.215	1.0 (VDD = 6.0V)	.48	.43	.38	.35
628-80845CNM-G	S-80845CNMC-B86T2G	SOT-23-5	N-Ch open	4.5	0.225	1.0 (VDD = 6.0V)	.48	.43	.38	.35
628-80845CNU-G	S-80845CNUA-B86T2G	SOT-89-3	N-Ch open	4.5	0.225	1.0 (VDD = 6.0V)	.48	.43	.38	.35
628-80850CNM-G	S-80850CNMC-B9BT2G	SOT-23-5	N-Ch open	5	0.25	1.0 (VDD = 6.0V)	.48	.43	.38	.35
628-80850CNU-G	S-80850CNUA-B9BT2G	SOT-89-3	N-Ch open	5	0.25	1.0 (VDD = 6.0V)	.48	.43	.383	.352
Thru-Hole										
628-80820CNY-G	S-80820CNY-B-G	TO-92	N-Ch open	2	0.1	0.8 (VDD = 3.5V)	.48	.43	.38	.35
628-80825CLY-G	S-80825CLY-B-G	TO-92	CMOS	2.5	0.125	0.8 (VDD = 3.5V)	.48	.43	.38	.35
628-80830CLY-G	S-80830CLY-B-G	TO-92	CMOS	3	0.15	0.9 (VDD = 4.5V)	.48	.43	.38	.35
628-80833CLY-G	S-80833CLY-B-G	TO-92	CMOS	3.3	0.165	0.9 (VDD = 4.5V)	.48	.43	.383	.352
628-80835CLY-G	S-80835CLY-B-G	TO-92	CMOS	3.5	0.175	0.9 (VDD = 4.5V)	.48	.43	.38	.35
628-80840CLY-G	S-80840CLY-B-G	TO-92	CMOS	4	0.2	1.0 (VDD = 6.0V)	.48	.43	.38	.35
628-80840CNY-G	S-80840CNY-B-G	TO-92	N-Ch open	4	0.2	1.0 (VDD = 6.0V)	.48	.43	.38	.35
628-80841CLY-G	S-80841CLY-B-G	TO-92	CMOS	4.1	0.205	1.0 (VDD = 6.0V)	.48	.43	.383	.352
628-80845CNY-G	S-80845CNY-B-G	TO-92	N-Ch open	4.5	0.225	1.0 (VDD = 6.0V)	.48	.43	.38	.35
628-80850CNY-G	S-80850CNY-B-G	TO-92	N-Ch open	5	0.25	1.0 (VDD = 6.0V)	.48	.43	.38	.35

S-809 Series

The S-809xxC series is a high-precision voltage detector developed using a CMOS process. The detection voltage is fixed internally, with an accuracy of ±2.0%. A time delayed reset can be accomplished with the addition of an external capacitor.

- Ultra-low current consumption: 1.0μA Typ. (at VDD = 2.0V); Detection voltage: less-than or equal to 1.4V
  1.1μA Typ. (at VDD = 3.5V); Detection voltage: greater-than or equal to 1.5V
- High-precision detection voltage: ±2.0%
- Operating voltage range: 0.7V to 10.0V
- Detection voltage: 1.3V to 6.0V (0.1V step)
- Hysteresis characteristics: 5% Typ.

TO-92



Bottom View

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Seiko Part No.	Package Type	Output Form	Detection Voltage (V)	Hysteresis Width (V) (Typ.)	Current Consumption (μA) (Typ.)	Price Each 1	100	500	1000
Surface Mount										
628-80920CLM-G	S-80920CLMC-G6QT2G	SOT-23-5	CMOS	2.0	0.100	1.2 (VDD = 3.5V)	.48	.43	.38	.35
628-80920CNM-G	S-80920CNMC-G8QT2G	SOT-23-5	N-Ch open	2.0	0.100	1.2 (VDD = 3.5V)	.48	.43	.38	.35
628-80925CLM-G	S-80925CLMC-G6VT2G	SOT-23-5	CMOS	2.5	0.125	1.2 (VDD = 3.5V)	.48	.43	.38	.35
628-80925CNM-G	S-80925CNMC-G8VT2G	SOT-23-5	N-Ch open	2.5	0.125	1.2 (VDD = 3.5V)	.48	.43	.38	.35
628-80927CNM-G	S-80927CNMC-G8XT2G	SOT-23-5	N-Ch open	2.7	0.135	1.3 (VDD = 4.5V)	.48	.43	.38	.35
628-80930CLM-G	S-80930CLMC-G60T2G	SOT-23-5	CMOS	3.0	0.150	1.3 (VDD = 4.5V)	.48	.43	.38	.35
628-80943CLM-G	S-80943CLMC-G7DT2G	SOT-23-5	CMOS	4.3	0.215	1.5 (VDD = 6.0V)	.48	.43	.383	.352
628-80945CLM-G	S-80945CLMC-G7FT2G	SOT-23-5	CMOS	4.5	0.225	1.5 (VDD = 6.0V)	.48	.43	.38	.35
628-80945CNM-G	S-80945CNMC-G9FT2G	SOT-23-5	N-Ch open	4.5	0.250	1.5 (VDD = 6.0V)	.48	.43	.38	.35

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