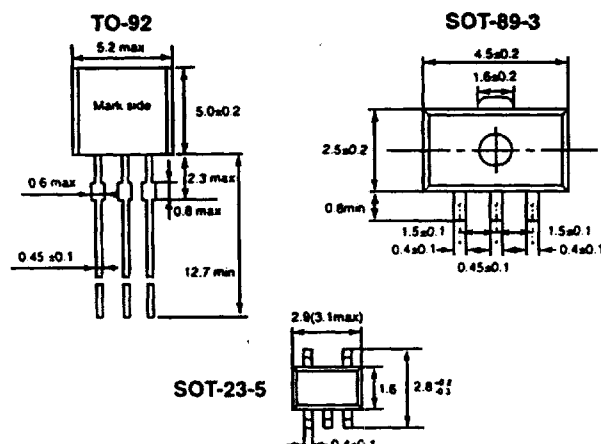


Low Power CMOS ICs

VOLTAGE DETECTORS - S-807 SERIES

• Features

- High Precision $\pm 2.4\%$
- Ultra-Low Current Consumption $1\mu\text{A typ}$
- Voltage Detection Range $1.5 \text{ to } 5.1\text{V}^*$
- Good Hysteresis Characteristics $5\% \text{ typ}$
- Wide Operating Voltage Range $1 \text{ to } 15\text{V}$
- Output Current 0.75mA max CMOS
 $0.5 \text{ to } 7\text{mA Nch Opndrain}$
- Output Forms: Nch Opndrain, CMOS L
- 3 Package Types: TO-92, SOT-89-3 and SOT-23-5



• Standard Product Features

Detection Voltage	** Nch Opndrain Output (AN), CMOS Output (AL)	TO-92	SOT-89-3	SOT-23-5	Typ. Hys. Width	Current Consumed	Output Current
1.5	—	—	S-80715AN-AC-X	—	0.075V	1.4μA	Nch Typ
1.7	S-80717AN	—	S-80717AN-AE-X	—	0.085V	Vdd	0.5mA
2	—	—	S-80720AN-AH-X	S-80720SN-AH-X	0.100V	(3.0V)	Vdd
2.1	S-80721AN	—	S-80721AN-AJ-X	—	0.105V	1.4μA	(1.2V)
2.2	S-80722AN	—	S-80722AN-AK-X	—	0.110V	Vdd	CMOS Typ
2.3	S-80723AN	—	S-80723AN-AL-X	S-80723SN-AL-X	0.115V	Vdd	0.62mA
2.4	S-80724AN	—	S-80724AN-AM-X	—	0.120V	(4.5V)	Vdd
2.5	S-80725AN	—	S-80725AN-AN-X	S-80725SN-AN-X	0.125V		(4.8V)
2.7	S-80727AN	—	S-80727AN-AQ-X	S-80727SN-AQ-X	0.135V		Nch Typ
2.8	—	—	S-80728AN-AR-X	S-80728SN-AR-X	0.140V		3.7mA
3	S-80730AN	—	S-80730AN-AT-X	S-80730SN-AT-X	0.150V	1.0μA	Vdd (2.4V)
3.2	S-80732AN	—	S-80732AN-AW-X	—	0.160V	Vdd	CMOS Typ
3.3	S-80733AN	—	S-80733AN-AX-X	—	0.165V	(4.5V)	0.62mA
3.5	S-80735AN	—	S-80735AN-AZ-X	S-80735SN-AZ-X	0.175V		Vdd (4.8V)
4	S-80740AN	—	S-80740AN-A4-X	S-80740SN-A4-X	0.200V		Nch Typ
4.1	S-80741AN	—	S-80741AN-A5-X	—	0.205V	1.0μA	7.0mA
4.2	S-80742AN	—	S-80742AN-A6-X	S-80742SN-A6-X	0.210V	Vdd	Vdd (3.6V)
4.5	S-80745AN	—	S-80745AN-A9-X	S-80745SN-A9-X	0.225V		CMOS Typ
4.6	S-80746AN	—	S-80746AN-EA-X	—	0.230V	(6.0V)	0.75mA
5	—	—	S-80750AN-EE-X	S-80750SN-EE-X	0.250V		Vdd (6.0V)
5.1	—	—	—	S-80751SN-EF-X	0.255V		

*Other voltage levels available: 1.6V, 1.8V, 1.9V, 2.6V, 2.9V, 3.1V, 3.4V, 3.7V, 3.8V, 3.9V, 4.3V, 4.4V, 4.7V, 4.8V, 4.9V, 5.3V, 5.5V, 6.1V, 6.3V, and 7.7V. Customization for higher voltages

**Parts available in CMOS output type

VOLTAGE REGULATORS - S-812XXPG/SG SERIES

• Features

- Low Power CMOS Single Output Voltage Regulators
- Ultra-Low Current Consumption $1.2\mu\text{A typ}$
- Low Dropout Voltage $160\text{mV typ, lout } 10\text{mA-PG Series}$
 $120\text{mV typ, lout } 40\text{mA-SG Series}$
- High Precision $\pm 2.4\text{-PG, } \pm 2\text{-SG}$
- Variety Of Output Voltage Levels $0.2\text{V Steps, } 1.1\text{V-}5.2\text{V}$
- Wide Input Voltage Range $\text{Up to } 16\text{V}$
- Low Temp Coef For Output Voltage $\pm 0.625\text{mV/C For } 5\text{V}$
- Output Current $\text{Max } 100\text{mA}$
- 3 Package Types: TO-92, SOT-89-3 and SOT-23-5
- Other Voltages Available: 1.1V, 2V, 2.1V, 2.3V, 2.4V, 2.5V, 2.7V, 3.5V, 3.7V, 4V, 4.5V, 4.6V, 5.2V, 5.3V, 5.4V, 5.5V and 5.6V

• General Description

Highly accurate, low power consumption regulators which include a reference voltage supply, error amplifier, control transistor and resistor network to control output voltage. Output voltage is fixed internally.

• Standard Product Features

Output Voltage	Package Types			I/O Voltage Difference	Load Stability
	TO-92	SOT-89-3	SOT-23-5		
1.5	S-81215PG	S-81215PG-PK-X	S-81215SG-QK-X	0.03V	80mV
3	S-81230PG	S-81230PG-PB-X	S-81230SG-OB-X	0.44V	60mV
3.3	S-81233PG	S-81233PG-PK-X	S-81233SG-OF-X	0.37V	60mV
5	S-81250PG	S-81250PG-PD-X	S-81250SG-QD-X	0.40V	40mV

STEP UP SWITCHING REGULATORS - S-8435/8436 SERIES

• Features

- Ultra-Low Current Consumption $5\mu\text{A typ, } 0.2\mu\text{A shutdown}$
- Wide Input Voltage Range $0.9\text{V min to } 12\text{V max}$
- Highly Accurate Output Voltage $\pm 3.0\%$
- Extremely Efficient
- Larger Output Current With External Transistor (S-8436)
- SOT-89-5 Package
- Available In: 1.5V, 3V, 3.6V, 3.7V, 4.4V, 5V, and 12V output voltages

• General Description

CMOS step-up switching regulator requires only external coil and cap for operation. Package includes reference voltage source, CR oscillation circuit, power MOS FET, Schottky diode (S-8435) and comparator. Output voltage is fixed internally and a shutdown function is available.

5V-3V DC-DC CONVERTER - S-8430AF

• Features

- Ultra-Low Current Consumption $11\mu\text{A typ, } 0.2\mu\text{A shutdown}$
- Low Input Voltage Operation 0.9V min
- Highly Accurate Output Voltage $5\text{V} \pm 4\% \text{ or } 3\text{V} \pm 5\%$
- Extremely Efficient $0.1\%/V \text{ typ}$
- SOP-8-pin Package

• General Description

CMOS DC/DC converter automatically steps voltage up or down according to input voltage. Output can be 5V or 3V. Output level during shutdown selected either Vss level or input voltage level. Built in Schottky diode and CR oscillating circuit as 40kHz typ frequency.

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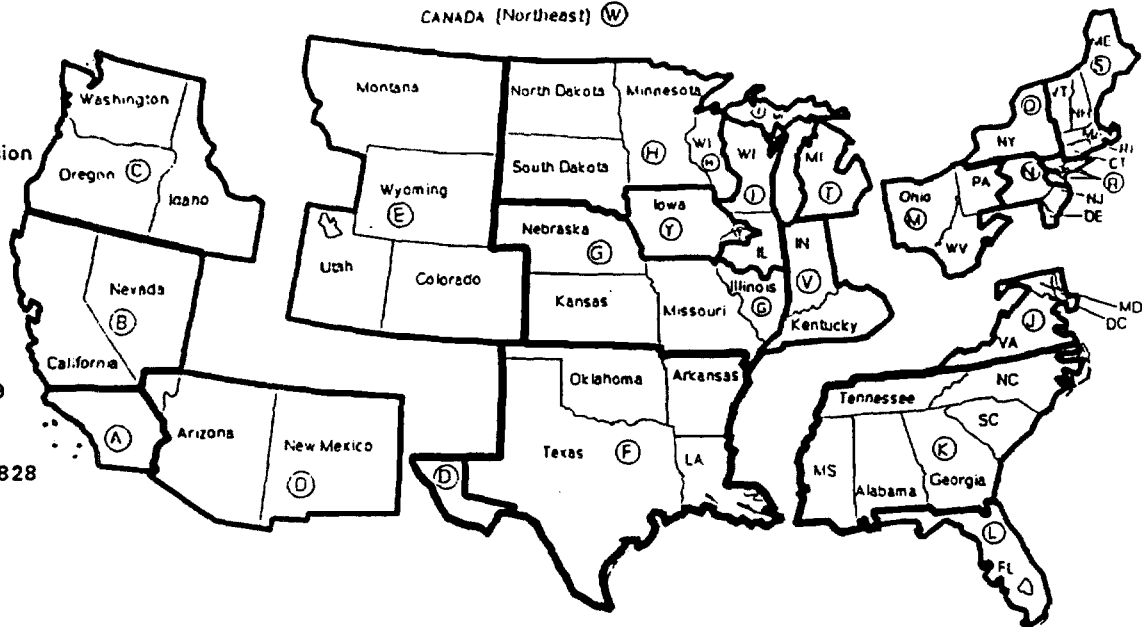
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