

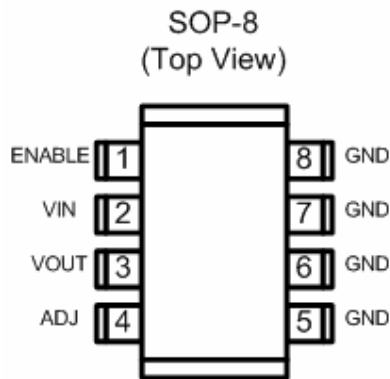


Description

The SE5220 series of fixed output ultra low dropout linear regulators are designed for portable battery powered applications, which require low power consumption and low dropout voltage. Each device contains a bandgap voltage reference, an error amplifier, a PMOS power transistor, and resistors for setting output voltage, and current limit and temperature limit protection circuits.

The SE5220 has been designed to be used with low cost capacitors and requires a minimum output capacitor of 1.0 μ F. Standard voltage versions are 3.3V, 3.0V, and adjustable output from 1.25V to 4.5V.

Pin Configuration



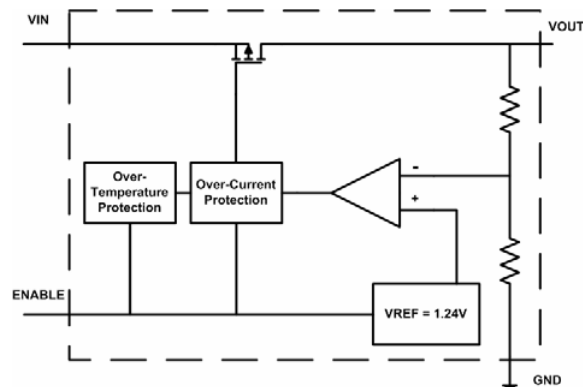
Features

- Typical 135mV Dropout Voltage at 500mA.
- Fast Enable Turn-On Time of 20 μ s (Typ.)
- Excellent Line and Load Regulation.
- High Accuracy Output Voltage of 2%.
- Ultra-Low Ground Current at 62 μ A (Typ.)
- Disable Current Less than 0.2 μ A (Typ.)
- Thermal and Over-Current Protection.
- Standard SOP-8 Package.

Application

- USB removable devices
- MPEG4 devices
- Wireless LAN's
- Hand-Held Instrumentation.
- Portable DVD players
- Digital camera

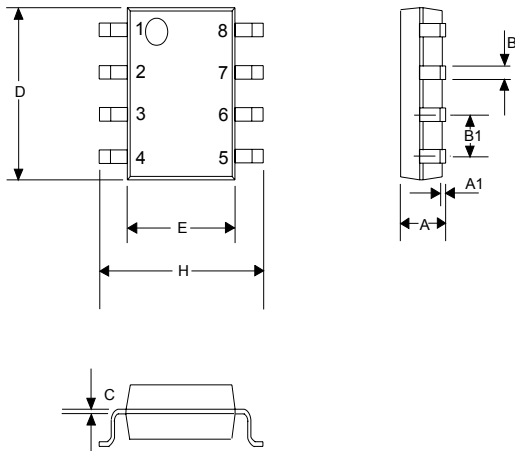
Block Diagram



(Fixed V_{OUT} Version)



OUTLINE DRAWING SOP-8



DIM ^N	DIMENSIONS			
	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.0532	0.0688	1.35	1.75
A1	0.0040	0.0098	0.10	0.25
B	0.0130	0.0200	0.33	0.51
B1	0.050 BSC		1.27 BSC	
C	0.0075	0.0098	0.19	0.25
D	0.1890	0.1968	4.80	5.00
H	0.2284	0.2440	5.80	6.20
E	0.1497	0.1574	3.80	4.00

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Preliminary and all contents are subject to change without prior notice

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