



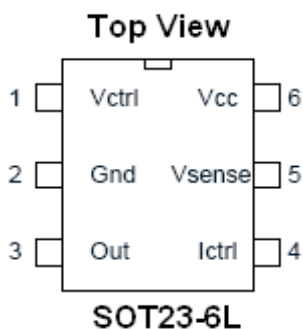
Description

SE1051 is a highly integrated solution for SMPS applications requiring CV (constant voltage) and CC (constant current) modes.

SE1051 integrates one voltage reference, two operational amplifiers (the outputs are OR'ed together, common collectors), and a current sensing circuit.

The voltage reference, together with one operational amplifier, makes it an ideal voltage controller. The other low voltage reference, together with another operational amplifier, makes it an ideal current limiter for low side output current sensing. The current threshold is fixed, and precise. The SE1051, housed in space-saving SOT23-6L package, is ideal for space sensitive applications such as adapters, cellphone chargers, Digital Camera chargers, and other battery chargers.

Pin Configuration



Features

- Constant Voltage and Constant Current Control
- Low Voltage Operation at 3V
- Precision Internal Voltage Reference
- Low External Component Count
- Current Sink Output Stage
- Easy Compensation
- Low AC Mains Voltage Rejection
- Rugged 2KV ESD withstand capability.
- Available in SOT-23-6L Package.
- RoHS Compliant and 100% Lead (Pb)-Free

Application

- Adapters
- Digital Camera Chargers.
- Cellphone Chargers.
- Other Battery Chargers

Ordering Information/Making Information

Device	Package	V _{OUT}
SE1051	SOT-23-6L (Lead-free)	Fixed output voltages 1.21V

Package	Making Information
	PIN1 is down in the left-hand corner. The last character is the batch number. A dot on top right corner is for lead-free process.

Pin Description

Name	Pin#	Type	Function
V _{CTRL}	1	Analog Input	Input Pin of the Voltage Control Loop
GND	2	Power Supply	Ground Line. 0V Reference For All Voltages
V _{OUT}	3	Current Sink Output	Output Pin. Sinking Current Only
I _{CTRL}	4	Analog Input	Input Pin of the Current Control Loop
V _{SENSE}	5	Analog Input	Input Pin of the Current Control Loop
V _{CC}	6	Power Supply	Positive Power Supply Line