

Electroluminescent Lamp Driver

features

- **2.2V-5.0V Battery Operation**
- **50nA Typical Standby Current**
- **High Voltage Output 160 V_{PP} typical**
- **Internal Oscillator**

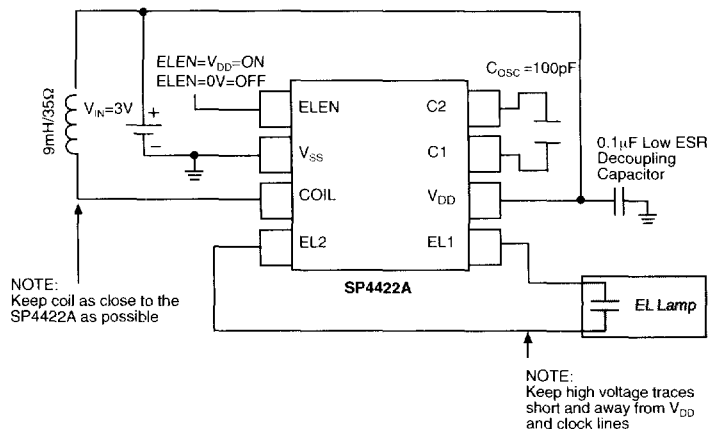
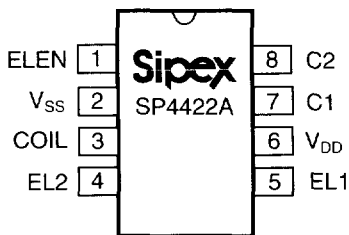
applications

- **PDA's**
- **Cellular Phones**
- **Remote Controls**
- **Handheld Computers**

description

The SP4422A is a high voltage output DC-AC converter that can operate from a 2.2V-5.0V power supply. The SP4422A is capable of supplying up to 220 V_{PP} signals, making it ideal for driving electroluminescent lamps. The device features 50 nA (typical) standby current, for use in low power portable products. One external inductor is required to generate the high voltage, and one external capacitor is used to select the oscillator frequency. The SP4422A is offered in an 8-pin narrow and 8-pin MSOP packages. For delivery in die form, please consult the factory.

typical application circuit



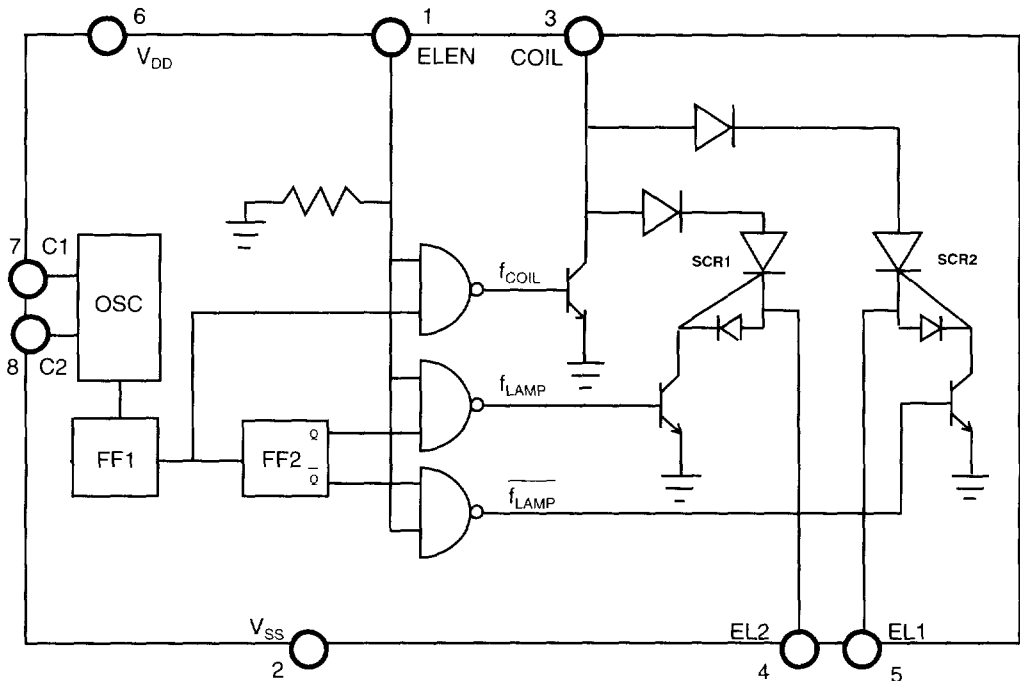
ordering information - Please consult the factory for pricing and availability on a Tape-On-Reel option.

Part Number	Temperature Range	Package Type
SP4422ACN	-40°C to +85°C	8-Pin NSOIC
SP4422ACU	-40°C to +85°C	8-Pin MSOP
SP4422ACX	-40°C to +85°C	Die
SP4422ANEB	N/A	NSOIC Evaluation Board
SP4422AU EB	N/A	MSOP Evaluation Board

SP4422A

PIN NO.	NAME	DESCRIPTION
1	ELEN	Enable for driver operation, high = active; low = inactive.
2	V _{SS}	Power supply common, connect to ground.
3	COIL	Coil input, connect coil from V _{DD} to pin 3.
4	EL2	Lamp driver output2, connect to EL lamp.
5	EL1	Lamp driver output1, connect to EL lamp.
6	V _{DD}	Power supply for driver, connect to system V _{DD} .
7	C1	Capacitor input 1, connect to C _{OSC} .
8	C2	Capacitor input 2, connect to C _{OSC} .

block diagram



D