

PRODUCT DESCRIPTION

Then SS6810R is a dual bridge motor driver which has two H-bridge drivers. Rated power supply voltage of the device is 42V。Pala-IN driving mode is adopted for input interface. Interms of current decay, the FAST DECAY/SLOW DECAY ratio may be controlled in the most appropriate way. In addition, the power supply may be driven by one single system, which simplifies the design.

The SS6810R used eTSSOP20 173mil package with an exposed thermal pad on the back, Rohs compliant, the leadframe is 100% lead free.

APPLICATION

- POS
- Printer
- Industrial camera
- Office Automation Electronics
- Toys
- Robots
- Stage lighting

FEATURES

- Rated output current (DC) 1.0A
- Rated power supply: 10V-40V
- Low $R_{DS(ON)}$
- PARA-IN driving mode
- PWM constant current
- 2 bits current control, Four current steps are provided.
- The current DECAY mode can be arbitrarily set to the FAST and Slow DECAY
- Built-in logic input pull-down resistor
- Thermal shutdown circuit(TSD)
- Over-current protection and current short protection (OCP)
- Under voltage lock out circuit (UVLO)
- Over voltage lock out circuit (OVLO)

BLOCK DIRGRAM

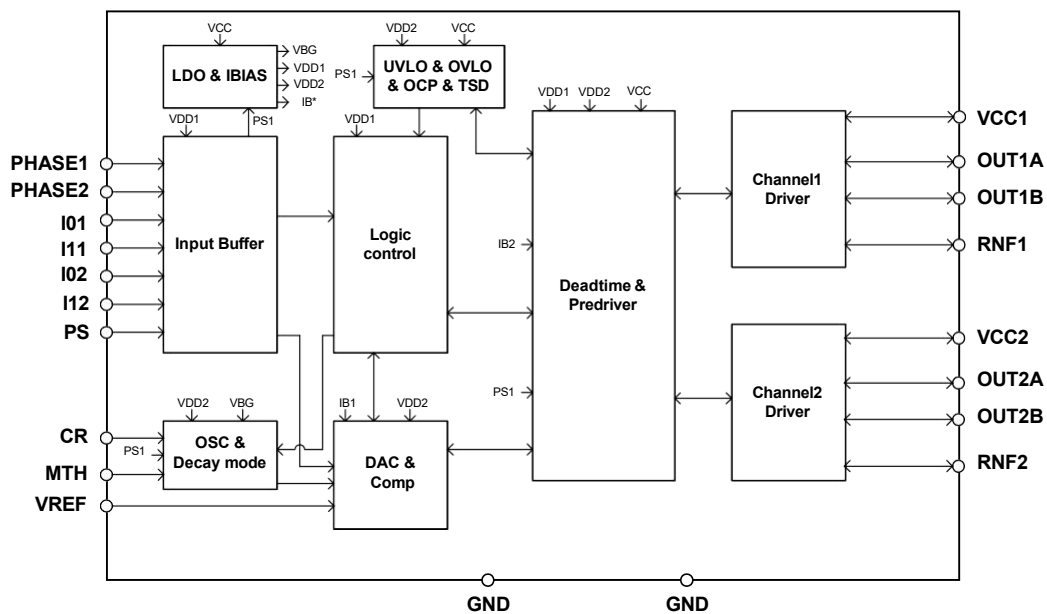


Figure1. Block diagram

APPLICATION CIRCUIT

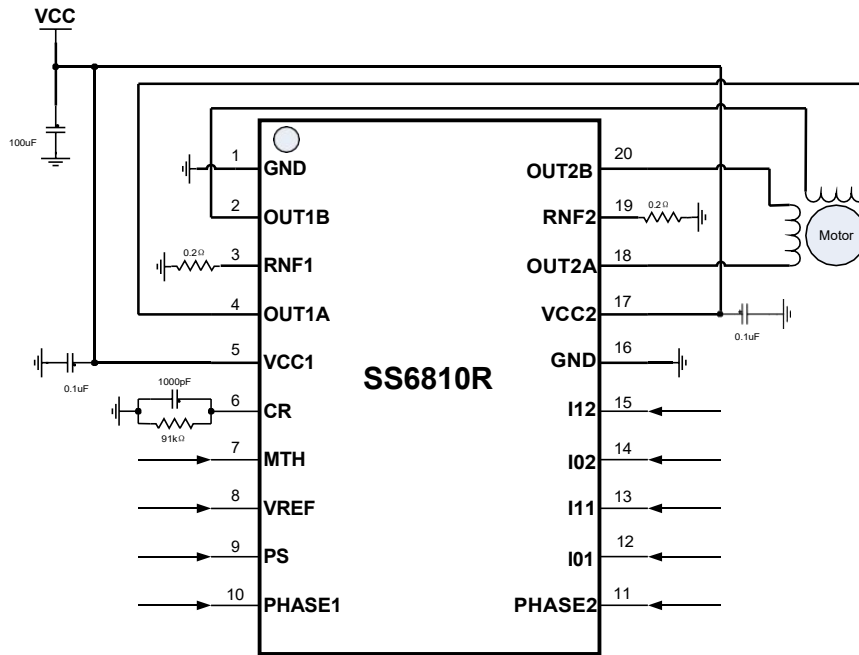


Figure 2. application circuit diagram

ORDER INFORMATION

Part Number	Package	marking
SS6810R	eTSSOP20	-

PIN CONFIGURATION

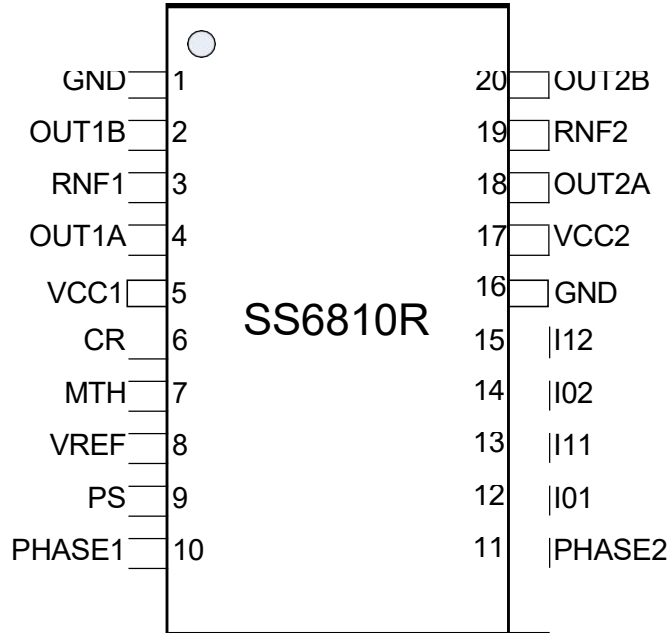


图 3. TOP VIEW

Pin Name	I/O	Description	Pin Number
GND	GND	GND	1,16
OUT1B	O	H Bridge output terminal	2
RNF1	I/O	Connection terminal of resistor for output current detection	3
OUT1A	O	H bridge output terminal	4
VCC1	Power	Power supply terminal	5
CR	I/O	Internal clock terminal	6
MTH	I	Setting the current DECAY mode	7
VREF	I	Output current value setting terminal	8
PS	I	Power save terminal	9
PHASE1	I	Phase selection terminal	10
PHASE2	I	Phase selection terminal	11
I01	I	VREF division ratio setting terminal	12
I11	I	VREF division ratio setting terminal	13
I02	I	VREF division ratio setting terminal	14
I12	I	VREF division ratio setting terminal	15
VCC2	Power	Power supply terminal	17
OUT2A	O	H bridge output terminal	18
RNF2	I/O	Connection terminal of resistor for output current detection	19
OUT2B	O	H bridge output terminal	20