LB1935FA

Allowable Operating Range at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Source voltage	VCC		2.2 to 7.5	V
Input high level voltage	V _{IH}	ENA, IN1, IN2 pin	1.8 to 7.5	V
Input low level voltage	V _{IL}	ENA, IN1, IN2 pin	-0.3 to +0.7	V

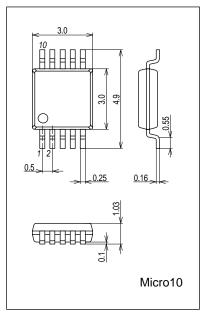
Electric Characteristics at Ta = 25°C, $V_{CC} = 3.3V$

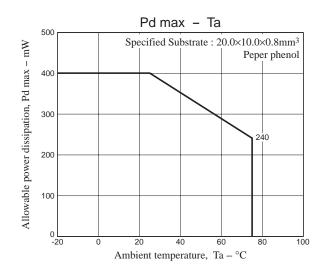
Parameter	Symbol	Conditions	Ratings			Unit	
Farameter	Symbol	Conditions	min	typ	max	Onit	
Power source current	I _{CC} 0	ENA = 0V, V _{IN} = 3V or 0V		0.1	1	μΑ	
	I _{CC} 1	ENA = 3V, V _{IN} = 3V or 0V		13	19	mA	
Output saturation voltage	V _{OUT} 1	ENA = 3V, V _{IN} = 3V or 0V, I _{OUT} = 100mA		0.2	0.3	V	
	V _{OUT} 2	ENA = 3V, V _{IN} = 3V or 0V, I _{OUT} = 200mA		0.4	0.6	V	
Input current	I _{IN}	V _{IN} = 3V		40	60	μΑ	
	IENA	VENA = 3V		40	60	μΑ	
Spark killer diode							
Reverse current	IS(leak)				1	μА	
Forward voltage	VSF	I _{OUT} = 200mA			1.7	V	

Package Dimensions

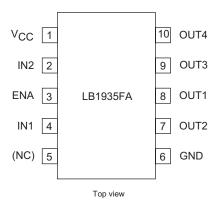
unit: mm (typ)

3428

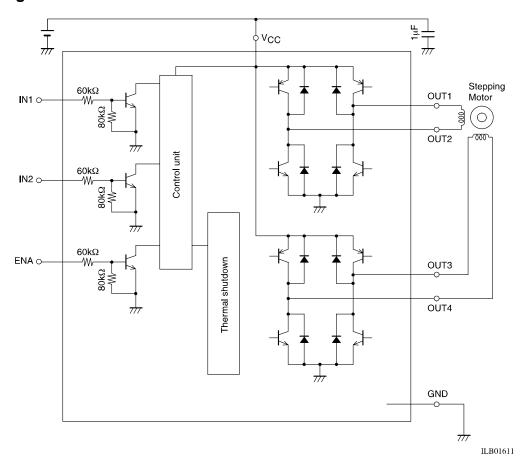




Pin Assignments



Block Diagram

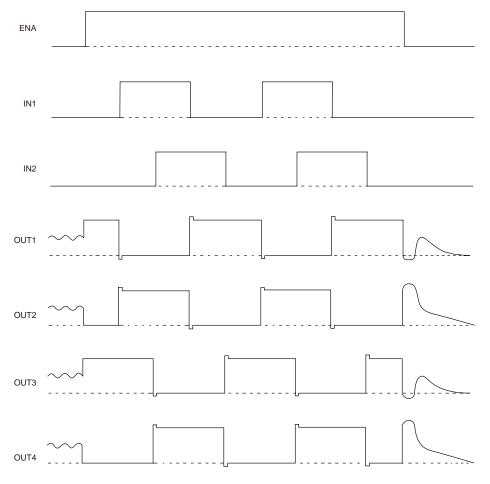


Truth Table

Damada	Output				Input		
Remarks	OUT4	OUT3	OUT2	OUT1	IN2	IN1	ENA
Standby	OFF	OFF	OFF	OFF	-	-	L
2-phase excitation	L	Н	L	Н	L	L	Н
	Н	L	L	Н	Н	L	
	Н	L	Н	L	Н	Н	
	L	Н	Н	L	L	Н	

Timing Chart

Timing chart below shows the 2 phase excitation stepping motor.



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