

LB1935FA

Allowable Operating Range at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Source voltage	V _{CC}		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

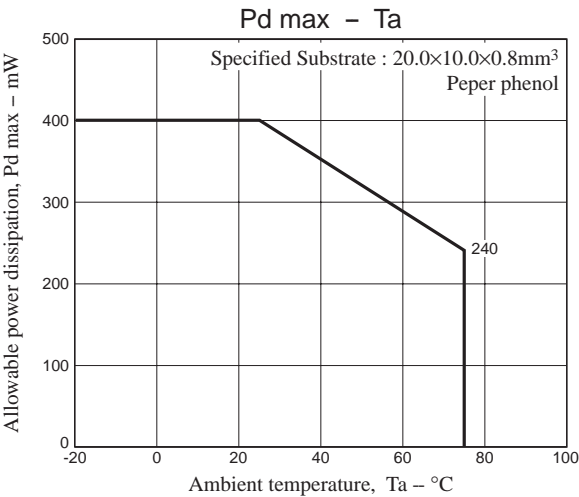
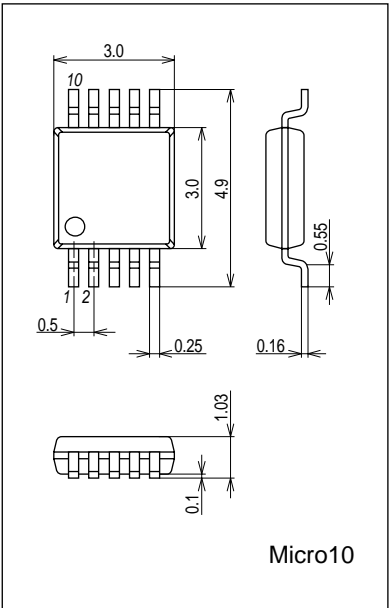
Electric Characteristics at Ta = 25°C, V_{CC} = 3.3V

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Power source current	I _{CC0}	ENA = 0V, V _{IN} = 3V or 0V		0.1	1	μA
	I _{CC1}	ENA = 3V, V _{IN} = 3V or 0V		13	19	mA
Output saturation voltage	V _{OUT1}	ENA = 3V, V _{IN} = 3V or 0V, I _{OUT} = 100mA		0.2	0.3	V
	V _{OUT2}	ENA = 3V, V _{IN} = 3V or 0V, I _{OUT} = 200mA		0.4	0.6	V
Input current	I _{IN}	V _{IN} = 3V		40	60	μA
	I _{ENA}	VENA = 3V		40	60	μA
Spark killer diode						
Reverse current	I _{S(leak)}				1	μA
Forward voltage	V _{SF}	I _{OUT} = 200mA			1.7	V

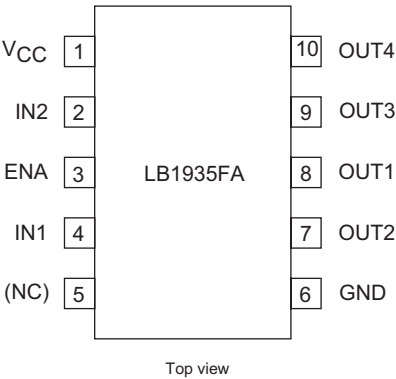
Package Dimensions

unit : mm (typ)

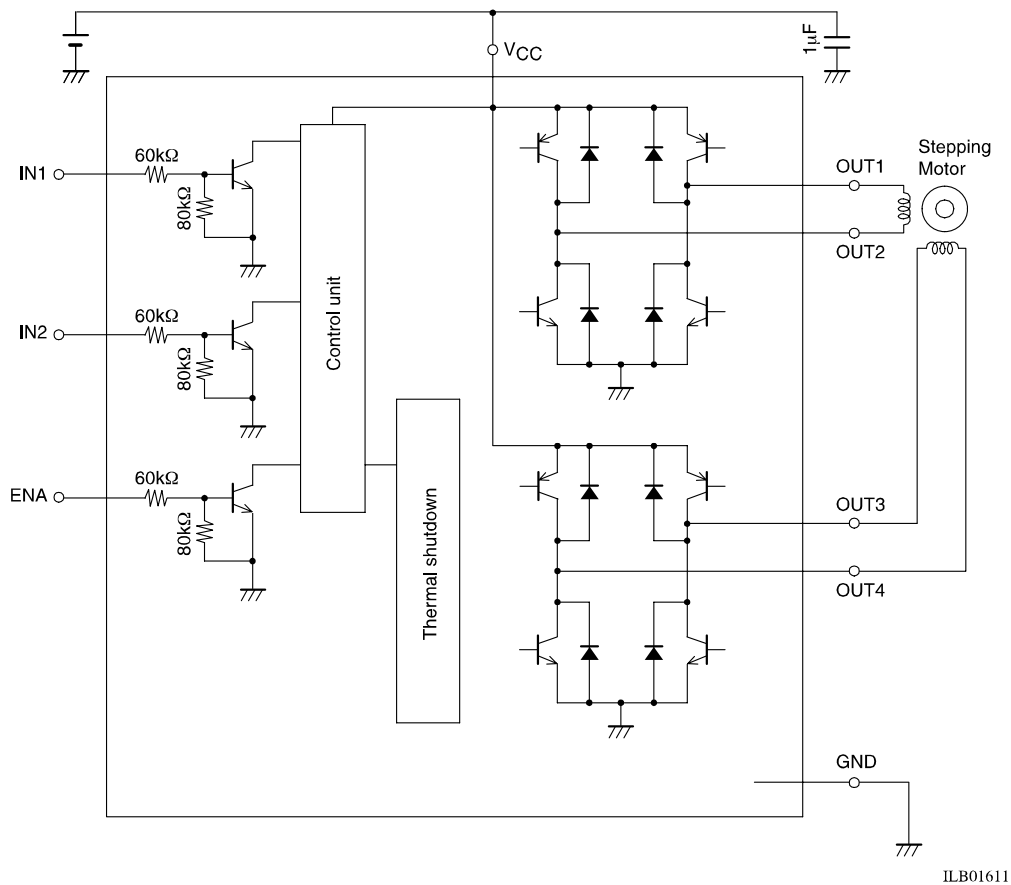
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Pin Assignments



Block Diagram

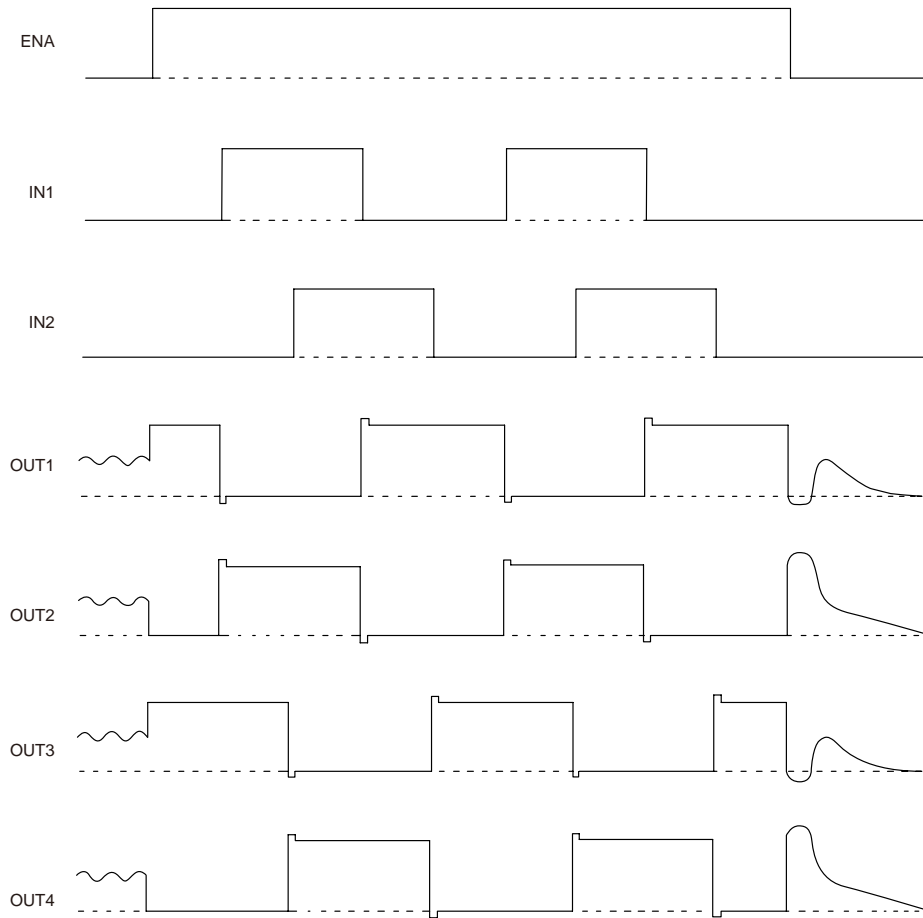


Truth Table

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

Timing Chart

Timing chart below shows the 2 phase excitation stepping motor.



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