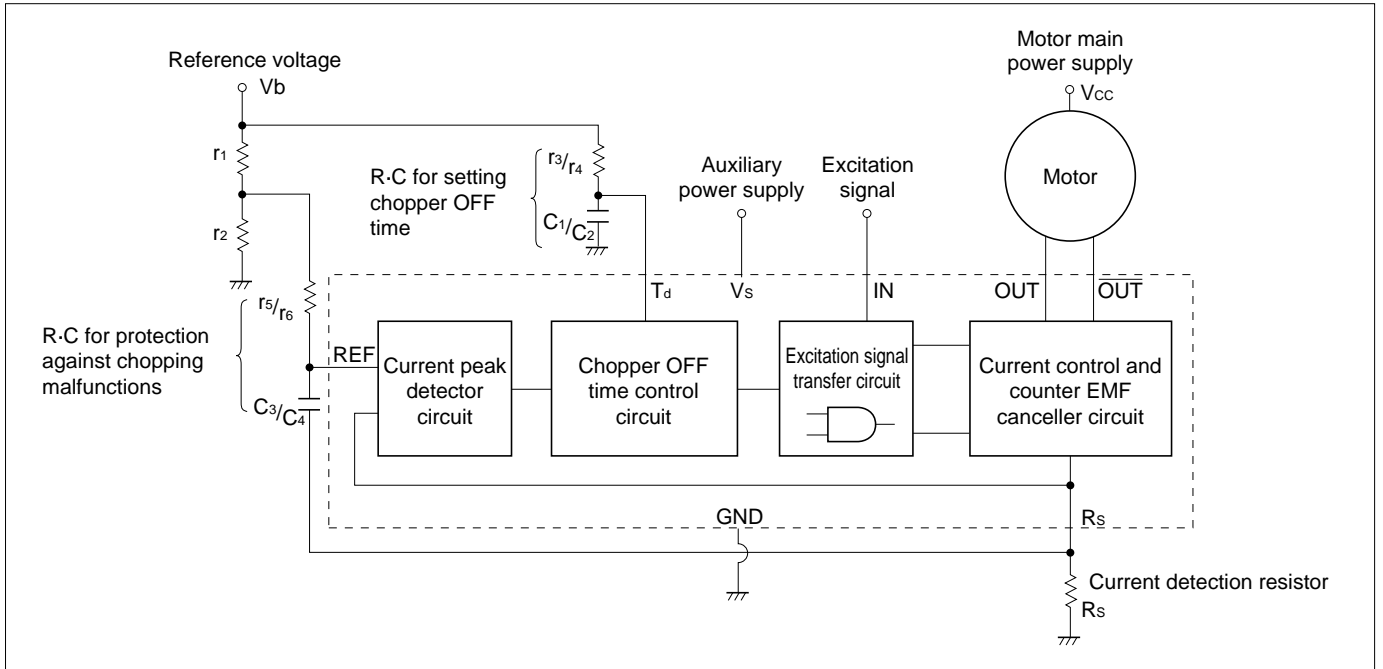




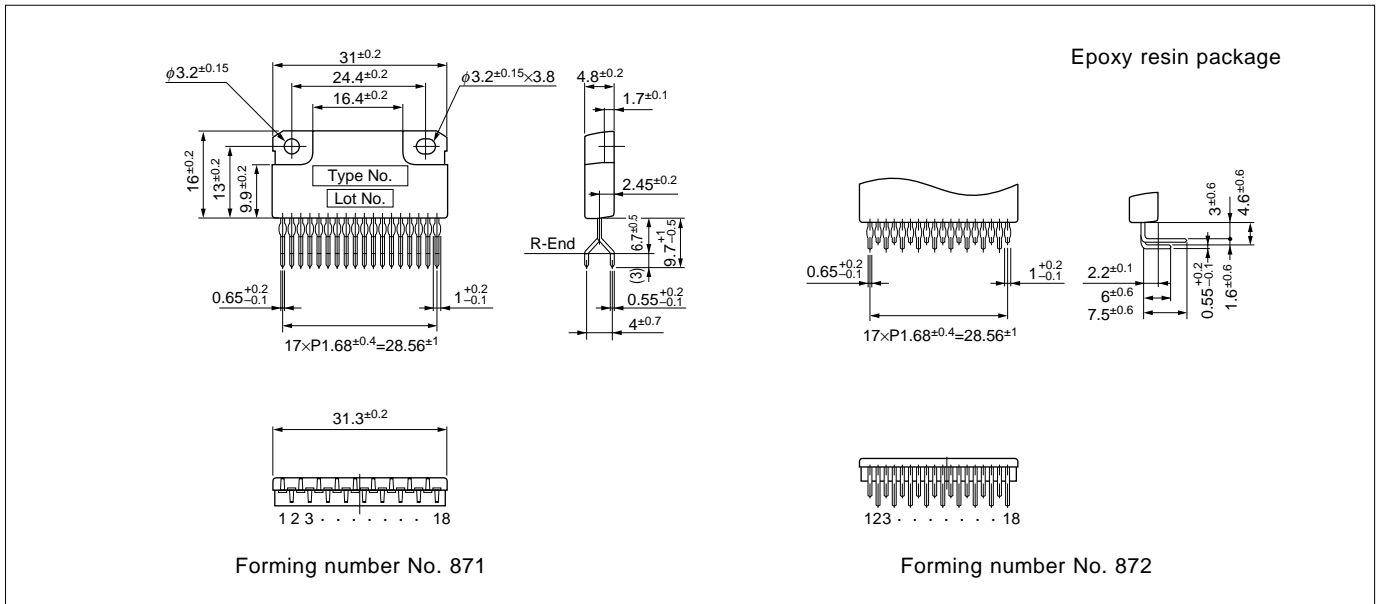
# SLA7024M, SLA7026M and SLA7027MU

## Block diagram



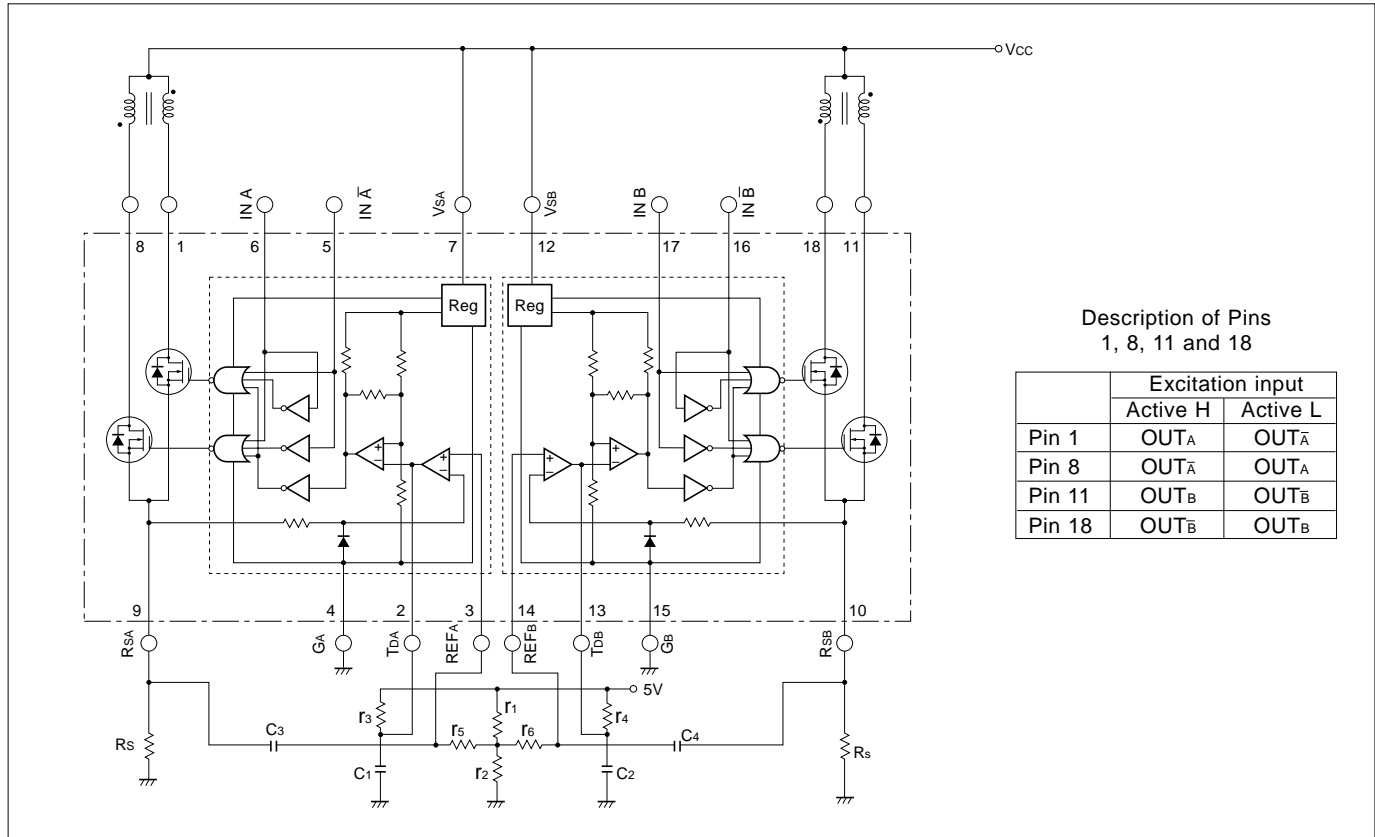
## External dimensions

(Unit: mm)



# SLA7024M, SLA7026M and SLA7027MU

## Internal circuit diagram (enclosed with chain line)



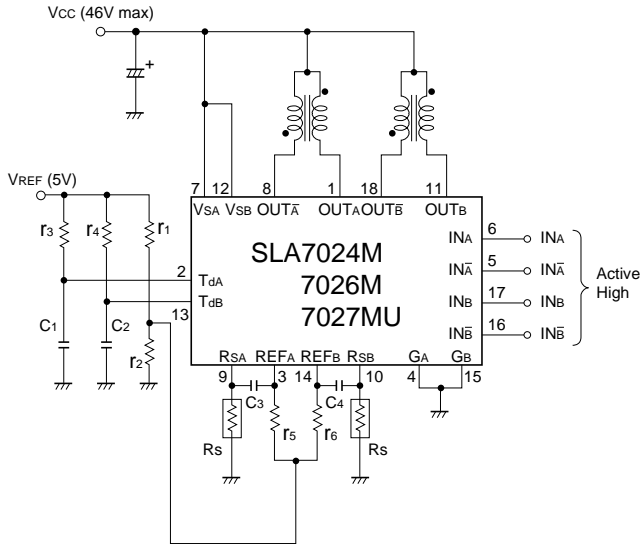
Description of Pins  
1, 8, 11 and 18

	Excitation input	
	Active H	Active L
Pin 1	OUT <sub>A</sub>	OUT <sub>A</sub> <sup>̄</sup>
Pin 8	OUT <sub>A</sub> <sup>̄</sup>	OUT <sub>A</sub>
Pin 11	OUT <sub>B</sub>	OUT <sub>B</sub> <sup>̄</sup>
Pin 18	OUT <sub>B</sub> <sup>̄</sup>	OUT <sub>B</sub>

# SLA7024M, SLA7026M and SLA7027MU

## ■ Diagram of standard external circuit (Recommended circuit constants)

Active High



Excitation signal time chart  
2-phase excitation

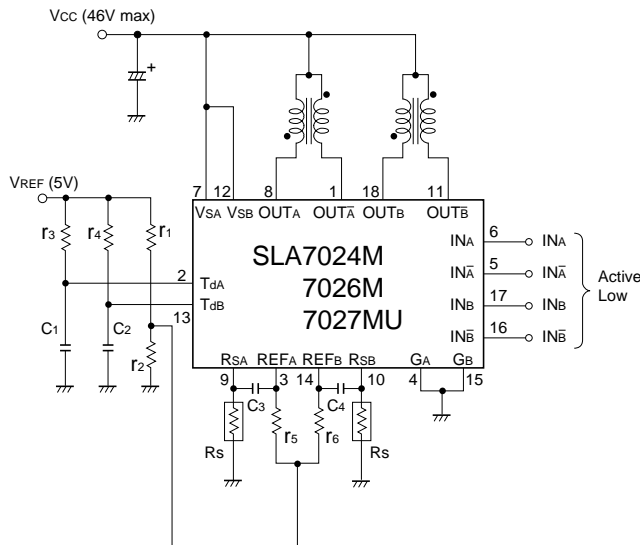
clock	0	1	2	3	0	1
INA	H	L	L	H	H	L
IN $\bar{A}$	L	H	H	L	L	H
INB	H	H	L	L	H	H
IN $\bar{B}$	L	L	H	H	L	L

1-2 phase excitation

clock	0	1	2	3	4	5	6	7	0	1	2	3
INA	H	H	L	L	L	L	L	H	H	H	L	L
IN $\bar{A}$	L	L	L	H	H	H	L	L	L	L	L	H
INB	L	H	H	H	L	L	L	L	L	H	H	H
IN $\bar{B}$	L	L	L	L	L	H	H	H	L	L	L	L

- r1 510 $\Omega$
- r2 100 $\Omega$  (VR)
- r3 47k $\Omega$
- r4 47k $\Omega$
- r5 2.4k $\Omega$
- r6 2.4k $\Omega$
- C1 470pF
- C2 470pF
- C3 2200pF
- C4 2200pF
- Rs 1 $\Omega$ (typ)1~2W(7024M)  
0.68 $\Omega$ (typ)1~2W(7026M)  
1.8 $\Omega$ (typ)1~2W(7027MU)

Active Low



Excitation signal time chart  
2-phase excitation

clock	0	1	2	3	0	1
INA	L	H	H	L	L	H
IN $\bar{A}$	H	L	L	H	H	L
INB	L	L	H	H	L	L
IN $\bar{B}$	H	H	L	L	H	H

1-2 phase excitation

clock	0	1	2	3	4	5	6	7	0	1	2	3
INA	L	L	H	H	H	H	L	L	L	L	H	H
IN $\bar{A}$	H	H	H	L	L	L	H	H	H	H	H	L
INB	H	L	L	L	H	H	H	H	H	L	L	L
IN $\bar{B}$	H	H	H	H	H	L	L	L	H	H	H	H

- r1 510 $\Omega$
- r2 100 $\Omega$  (VR)
- r3 47k $\Omega$
- r4 47k $\Omega$
- r5 2.4k $\Omega$
- r6 2.4k $\Omega$
- C1 470pF
- C2 470pF
- C3 2200pF
- C4 2200pF
- Rs 1 $\Omega$ (typ)1~2W(7024M)  
0.68 $\Omega$ (typ)1~2W(7026M)  
1.8 $\Omega$ (typ)1~2W(7027MU)