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T-52-13-25

Stepping Motor Driver

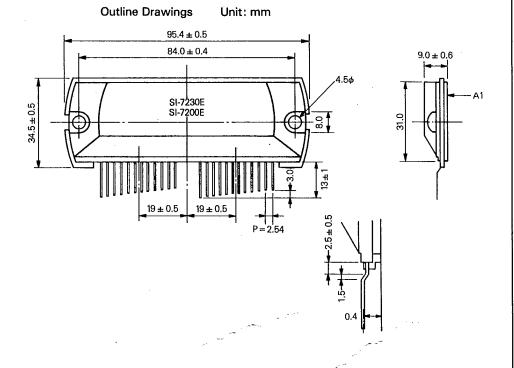
SI-7200E, SI-7230E Series

Features:

Effective power saving, high torque and fast transient response.

Chopped constant current drive made it unnecessary to put series resistor.
Full bridge bipolar driver made it possible to use the coils of motor effectively.
Surge voltage utilization reuses the inductive energy by charging it to capacitor, which does not require damping circuit.

The IC makes total system compact because of low power dissipation and because of integrated circuit utilization. Output torque can be controlled easily by PWM circuit. It can be applied to the double1-2 phase excitation motors.



Absolute Maximum Ratings (Ta=25°C)

Description	Ormhal		Rating		
Description	Symbol	Unit -	SI-7200E	SI-7230E	
Supply Voltage	Vcc	V	60		
Surge Voltage	Vcc	V	70(Surge)		
Output Current	lo	A	1.2 3.0		
Junction Temperature	Tj	°C	125		
Operating Temperature	Тор	°C	-20~+80		
Storage Temperature	Tstg .	°C	-30~+100		

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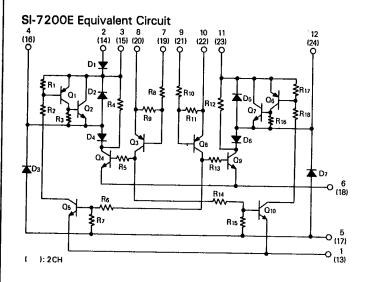
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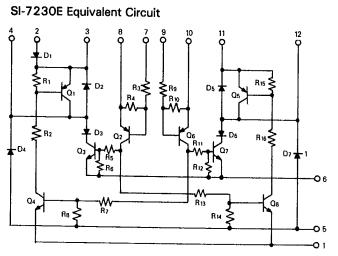
SI-7200E, SI-7230E Series

Electrical Characteristics (Ta=25°C)

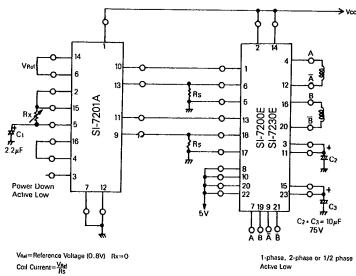
Description		Unit	Rating					
	Symbol		SI-7200E			SI-7230E		
			MIN	ТҮР	MAX	MIN	ТҮР	MAX
Supply Voltage	Vcc	V	20		50	20		50
Output Current	lo	A			1.0			2.5
Input Current	İIN	mA			1.6			1.6

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SI-7200E, SI-7230E Connections

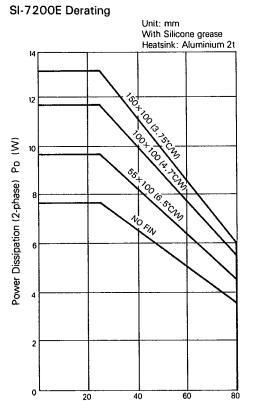


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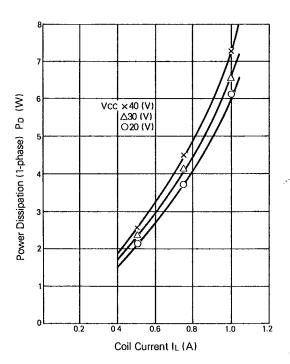
T-52-13-25 Stepping Motor Driver 

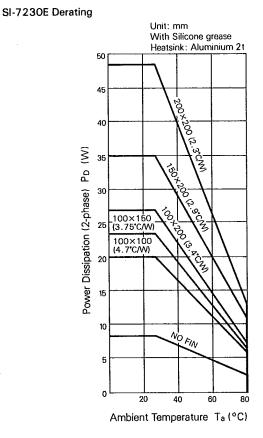
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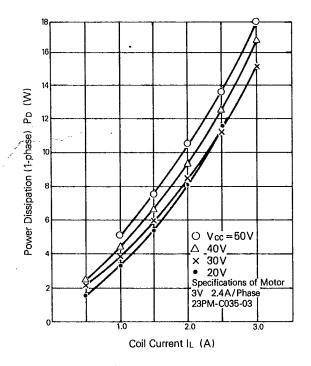
Ambient Temperature Ta (°C)

SI-7200E Power Dissipation (1-phase) vs. Coil Current Characteristics





SI-7230E Power Dissipation (1-phase) vs. Coil Current Characteristics

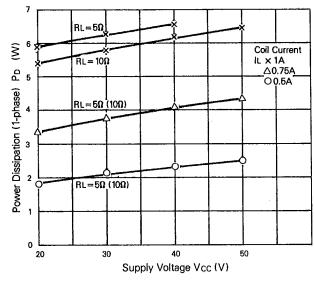


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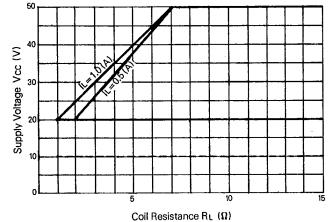
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SI-7200E, SI-7230E Series

SI-7200E Power Dissipation (1-phase) vs. Supply Voltage Characteristics

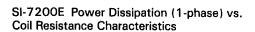


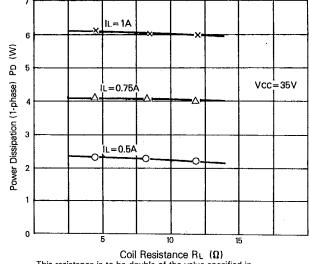
SI-7200E Operating Voltage Range



Single–Dual Phase Excitation Time Chart

	Α	В	Ā	B	Ad	Bd
1	0	1	1	1	1	1
2	0	Ó	1	1	1	0
3	0	0	1	1	1	1
2 3 4	0	0	1	1	0	1
5 6 7	1	Ö	1	1	1	1
6	1	0	0	1	0	1
7	1	0	0	1	1	1
8	1	0	0	1	1	0
9	1	1	0	1	1	
10	1	1	000	0	1	1
11	1	1		0	1	1
12 13	1	1	0	0	0	1
13	1	1	1	0	1	1
14	0	1	1	0 0	0	1
14 15 16	0 0 0	1	1	0	1	1
16	0	1	1	0	1	0
1	0	1	1	1	1	1

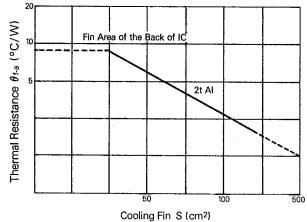


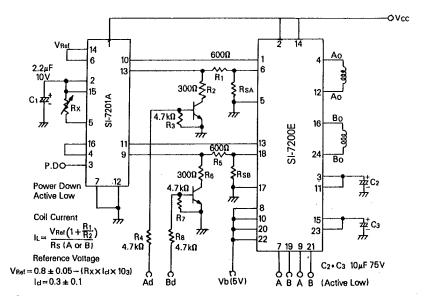


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This resistance is to be double of the value specified in catalog of motor because of bi-polar drive.







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