Thick Film Hybrid IC

Function

Stepping motor driver

Applications

Printers, facsimile system, floppy disks

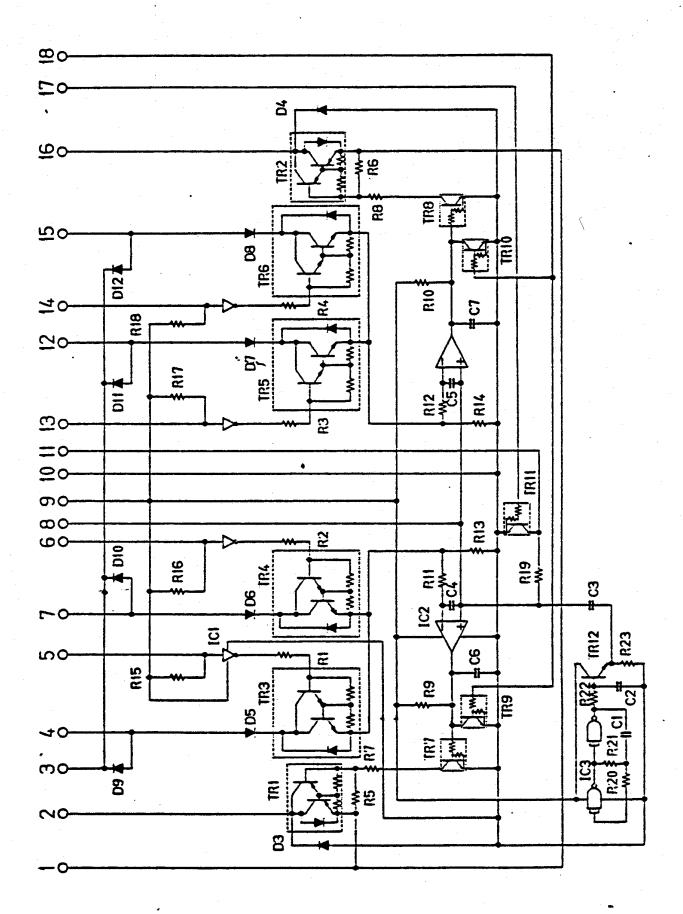
Feature

Constant-current chopper drive (Separate excitation, with input inverters built in)

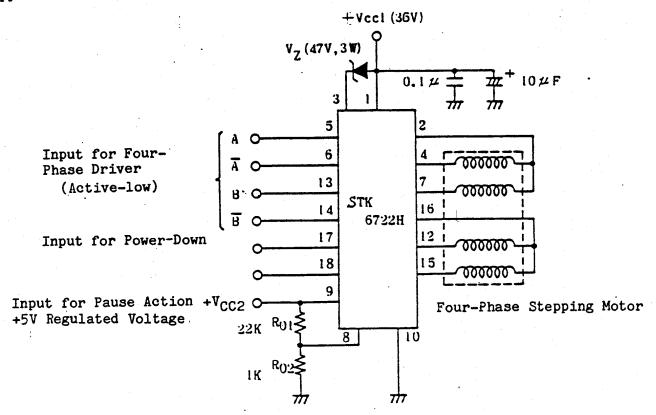
Maximum Ratings at Ta=25°C					unit
Supply Voltage V _{CC} max Oper	ating voltage at quiescent m	ode		50	V
Phase Current IOHmax 0.5s	ec,1 pulse			2.1	A
Storage Temperature Tstg			-40tc	+125	°C
Junction Temprature Tjmax				150	°C
Operating Case Tcmax				105	ОС
Temperature					
Allowable Operating Conditions at Ta=25°C unit					
Supply Voltage V _{CC} max	4		221	o45	V
Phase Current I _{OH} max Duty 5	n ⊈			1.5	•
Thase our car 10Hmax 2009 3				•••	•
Electrical Characteristics at Ta=	25°C, V _{CC1} =36V, V _{CC2} =5V	min	typ	max	unit
Output Saturation Voltage1 Vst-	1 RL=12ohms, Vin=GND,		1.2	1.6	V
1-2,1-16	V _{CC1} =22V				•
Output Saturation Voltage2 Vst-	2 RL=21ohms, V _{in} =GND,		2.5	3.0	V
4,7,12,15-10	V _{CC1} =36V	_			
Output Current (Average)1 Io-1	• •	.98	1.05	1.12	A
	Vin=GND, per phase	•			_
		.45	0.52	0.60	A
at Power-Down Mode	per phase, Vin=GND,				
	power-down input voltage	•			
	Vpd 2.0V≦Vpd≦5.0V (pin 17			00	
Current at Pause Mode Icco	•	10	15	20	mA
	Vs:pin 18 input pause				
000 7	voltage	20	O)ı	20	1-17
OSC Frequency fc	With R _{pd} =680ohms	20	24	28	kHz
	1 If=0.3Å		1.5	1.8	V
Diode Forward Voltage2 Vdf-	2 If=0.5A		1.2	1.8	¥

Note:. For power supply, use a voltage regulator.

Equivalent Circuit



Application Circuit



Cautions

- 1. It is inhibited to bring the input signals to "L" level simultaneously.
- 2. The external zener diode must be selected according to the operating conditions.

$$v_z < 100 - v_{cc1} max$$

Case Outline

