

SANYO**STK6722H**

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_{CCmax}	Operating voltage at quiescent mode	50 V
Phase Current	I_{OHmax}	0.5sec, 1 pulse	2.1 A
Storage Temperature	Tstg		-40to+125 °C
Junction Temperature	Tjmax		150 °C
Operating Case Temperature	Tcmax		105 °C

Allowable Operating Conditions at Ta=25°C

			unit
Supply Voltage	V_{CCmax}		22to45 V
Phase Current	I_{OHmax}	Duty 50%	1.5 A

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, 1-16		1.2	1.6	V
Output Saturation Voltage2	Vst-2	RL=21ohms, $V_{in}=GND$, 4, 7, 12, 15-10		2.5	3.0	V
Output Current (Average)1	Io-1	Load: R=3.5ohms, L=3.8mH, Vin=GND, per phase	0.98	1.05	1.12	A
Output Current (Average)2 at Power-Down Mode	Io-2	Load: L=3.8mH, R=3.5ohms, per phase, Vin=GND, power-down input voltage Vpd 2.0V $\leq$ Vpd $\leq$ 5.0V (pin 17)	0.45	0.52	0.60	A
Current at Pause Mode	Icco	2.0V $\leq$ Vs $\leq$ 5.0V, Vin=GND, Vs: pin 18 input pause voltage	10	15	20	mA
OSC Frequency	fc	With Rpd=680ohms	20	24	28	kHz
Diode Forward Voltage1	Vdf-1	If=0.3A		1.5	1.8	V
Diode Forward Voltage2	Vdf-2	If=0.5A		1.2	1.8	V

Note1. For power supply, use a voltage regulator.

Equivalent Circuit



