

AN6873N, AN6873NS

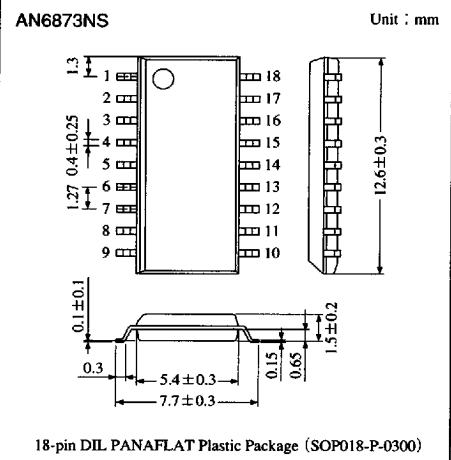
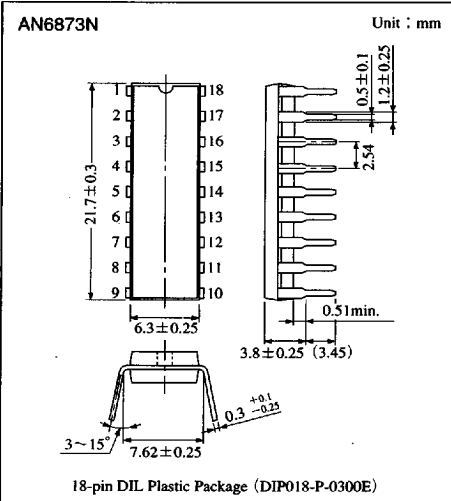
Fluorescent Display Tube Drive Circuit (8-circuit)

■ Overview

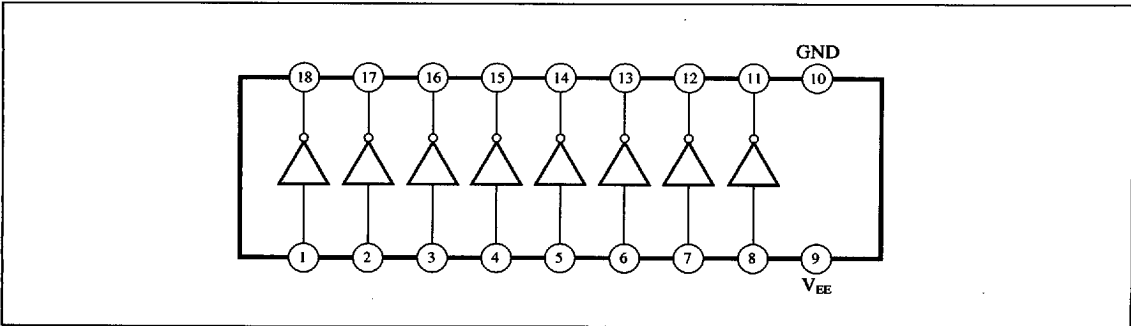
The AN6873N and AN6873NS are ICs designed for driving the high-breakdown fluorescent display tubes.

■ Features

- Built-in 8-circuit
- Capable of directly driving the fluorescent tubes because of built-in pull-down resistors
- CMOS or TTL input directly drivable



■ Block Diagram



■ 6932852 0013312 T60 ■

Pin Descriptions

Pin No.	Pin name	Pin No.	Pin name
1	Ch.1 input	10	Earth
2	Ch.2 input	11	Ch.8 output
3	Ch.3 input	12	Ch.7 output
4	Ch.4 input	13	Ch.6 output
5	Ch.5 input	14	Ch.5 output
6	Ch.6 input	15	Ch.4 output
7	Ch.7 input	16	Ch.3 output
8	Ch.8 input	17	Ch.2 output
9	Negative supply voltage	18	Ch.1 output

Absolute Maximum Ratings (Ta=25℃)

Parameter		Symbol	Rating	Unit
Supply voltage		V _{EE}	−55	V
Supply current		I _{CC}	−45	mA
Power dissipation	AN6873N	P _D	500	mW
	AN6873NS		420	
Storage temperature		T _{opr}	−30 to +75	℃
Operating ambient temperature	AN6873N	T _{sig}	−55 to +150	℃
	AN6873NS		−55 to +125	

Recommended Operating Range (Ta=25℃)

Parameter	Symbol	Range
Operating supply voltage range	V _{EE}	−50 to −15V

Electrical Characteristics (Ta=25℃)

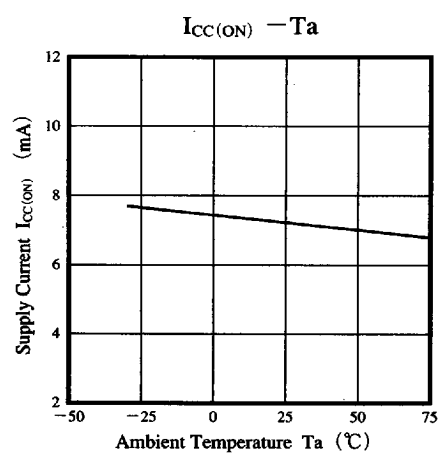
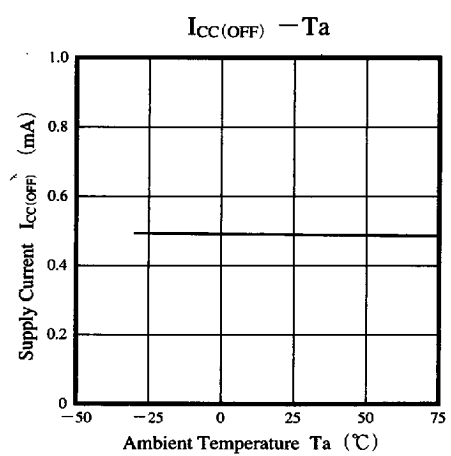
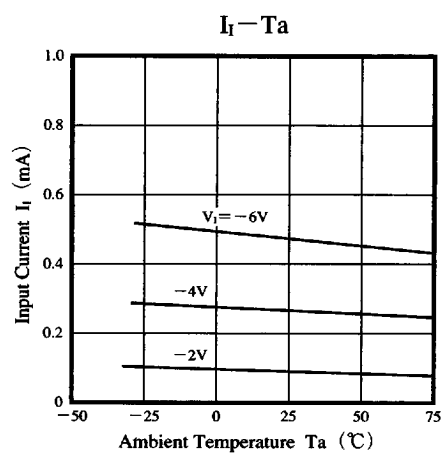
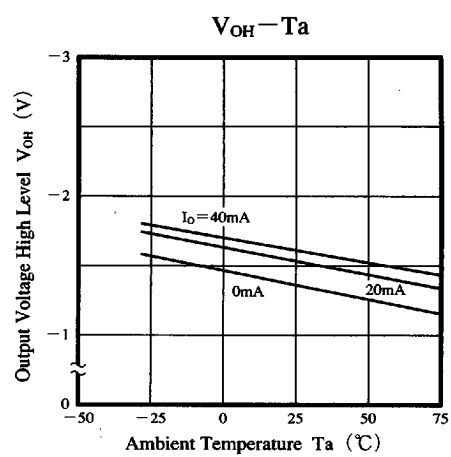
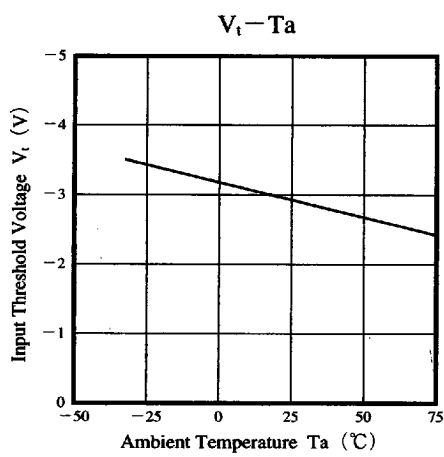
Parameter	Symbol	Condition	min	typ	max	Unit
Input voltage high level	V _{IH}	V _{EE} = −50V, V _O ≤ −45V	−1.5	—	—	V
Input voltage low level	V _{IL}	V _{EE} = −50V, V _O ≥ −3V	—	—	−4	V
Input current high level	I _{IH}	V _{EE} = −50V, V _I = −1.5V	−280	−70	—	μA
Input current low level (1)	I _{IL1}	V _{EE} = −50V, V _I = −4V	−1.2	−0.25	—	mA
Input current low level (2)	I _{IL2}	V _{EE} = −50V, V _I = −7V	−2.6	−0.6	—	mA
Output voltage high level	V _{OH}	V _{EE} = −50V, V _I = −4V, I _O = −40mA	−3	−1.5	—	V
Output voltage low level	V _{OL}	V _{EE} = −50V, V _I = −1.5V, I _O = 0mA	—	−49.9	−45	V
Supply current (1)	I _{CC(OFF)}	V _{EE} = −50V, V _I = −1.5V	—	—	1.3	mA
Supply current (2)	I _{CC(ON)}	V _{EE} = −50V, V _I = −4V	—	—	12	mA

Others

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Panasonic

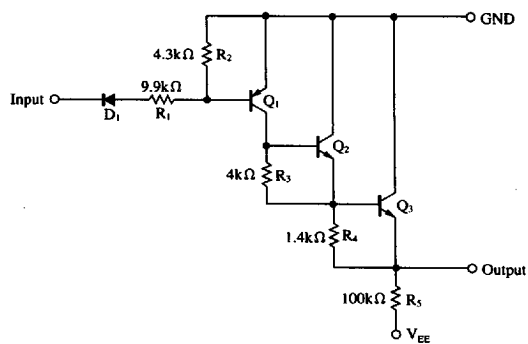
■ Characteristics Curve



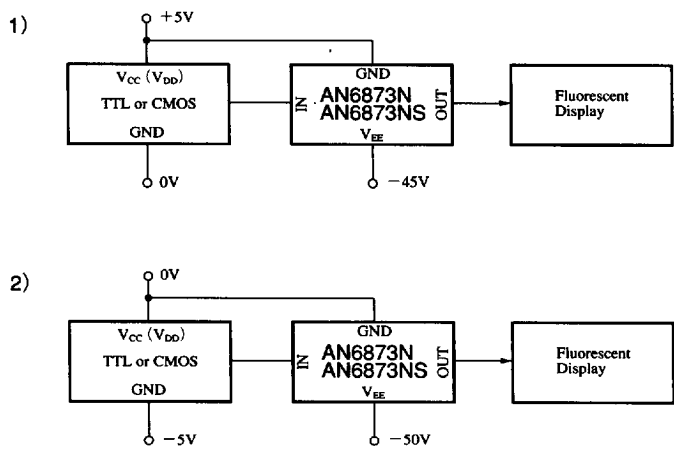
■ 6932852 0013314 833 ■

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■ Equivalent Circuit (1/8 Circuit)



■ Application Circuit



Others

■ 6932852 0013315 77T ■

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