6-channel inverter BA6266 / BA6266F

The BA6266 and BA6266F are driver ICs featuring high output voltage capability and high-current open collector output, and having six built-in inverter buffer circuits.

The open collector output enables "AND" ties. In addition, clamp diodes are connected to all inputs, minimizing error caused by ringing and other factors. These inverters feature a high output pressure withstand resistance of 30V, as well as a large output power supply (sink current) of 40mA, making them suitable for use in LED drivers and interfaces with other elements.

Applications

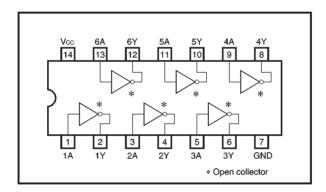
General-purpose digital equipment

Features

- 1) High output current. (IoL = 40mA)
- 2) High output voltage. (Vo = 30V)

- 3) "AND" ties enabled.
- 4) Wide range of operating temperatures.

Block diagram



●Absolute maximum ratings (Ta = 25°C)

Parameter		Symbol	Limits	Unit	
Power supply voltage		Vcc	7	٧	
Power dissipation	BA6266	Pd	600*1	mW	
	BA6266F	Pa	550*²		
Operating temperature		Topr	0 ~ + 70	°C	
Storage temperature		Tstg	− 55 ~ + 125	°C	
Input voltage		Vı	5.5	V	
Output voltage		Vo	33	V	

^{*1} Reduced by 6.0mW for each increase in Ta of 1°C over 25°C.

^{*2} Reduced by 5.5mW for each increase in Ta of 1°C over 25°C.

● Recommended operating conditions (Ta = 25°C, Vcc = 5V)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Power supply voltage	Vcc	4.75	5	5.25	٧	_
Output voltage	Vo	_	_	30	V	When output is "H"

●Electrical characteristics (unless otherwise noted, Ta = 25°C, Vcc = 5V)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Input high level voltage	ViH	2	_	_	٧	_
Input low level voltage	VIL	_	_	0.8	٧	_
Output saturation voltage 1	Vol1	_	_	0.4	V	Vcc = 4.75V, loL = 16mA
Output saturation voltage 2	V _{OL2}	_	_	0.7	V	Vcc = 4.75V, IoL = 40mA

Internal equivalent circuit diagram

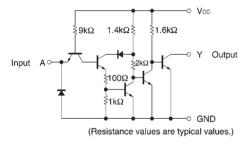


Fig.1

●Truth table

А	Y
Н	L
L	Н

Application examples

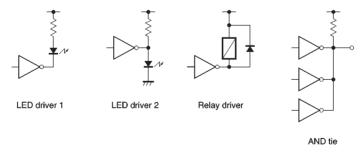


Fig.2

Motor driver ICs BA6266 / BA6266F

Electrical characteristics curves

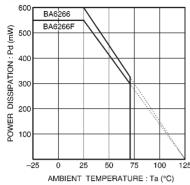


Fig.3 Power dissipation vs. ambient temperature

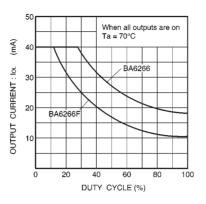


Fig.4 Output conditions diagram

External dimensions (Units: mm)

