

# 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.

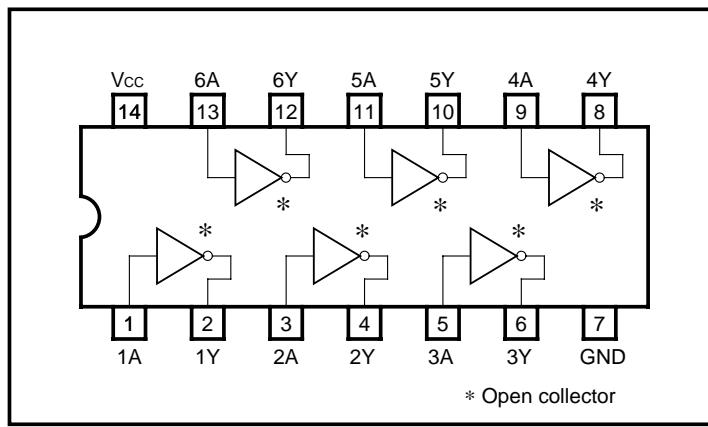
### ● Applications

General-purpose digital equipment

### ● Features

- 1) High output current. ( $I_{OL} = 40\text{mA}$ )
- 2) High output voltage. ( $V_O = 30\text{V}$ )
- 3) “AND” ties enabled.
- 4) Wide range of operating temperatures.

### ● Block diagram



### ● Absolute maximum ratings ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Limits	Unit
Power supply voltage	Vcc	7	V
Power dissipation	Pd	600* <sup>1</sup>	mW
BA6266		550* <sup>2</sup>	
Operating temperature	Topr	0 ~ + 70	°C
Storage temperature	Tstg	- 55 ~ + 125	°C
Input voltage	Vi	5.5	V
Output voltage	Vo	33	V

\*1 Reduced by 6.0mW for each increase in  $T_a$  of  $1^\circ\text{C}$  over  $25^\circ\text{C}$ .

\*2 Reduced by 5.5mW for each increase in  $T_a$  of  $1^\circ\text{C}$  over  $25^\circ\text{C}$ .

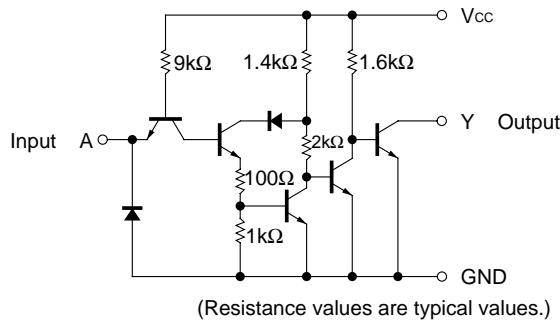
● Recommended operating conditions ( $T_a = 25^\circ\text{C}$ ,  $V_{cc} = 5\text{V}$ )

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Power supply voltage	$V_{cc}$	4.75	5	5.25	V	—
Output voltage	$V_o$	—	—	30	V	When output is "H"

● Electrical characteristics (unless otherwise noted,  $T_a = 25^\circ\text{C}$ ,  $V_{cc} = 5\text{V}$ )

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Input high level voltage	$V_{IH}$	2	—	—	V	—
Input low level voltage	$V_{IL}$	—	—	0.8	V	—
Output saturation voltage 1	$V_{OL1}$	—	—	0.4	V	$V_{cc} = 4.75\text{V}$ , $I_{OL} = 16\text{mA}$
Output saturation voltage 2	$V_{OL2}$	—	—	0.7	V	$V_{cc} = 4.75\text{V}$ , $I_{OL} = 40\text{mA}$

● Internal equivalent circuit diagram



● Truth table

A	Y
H	L
L	H

Fig.1

● Application examples

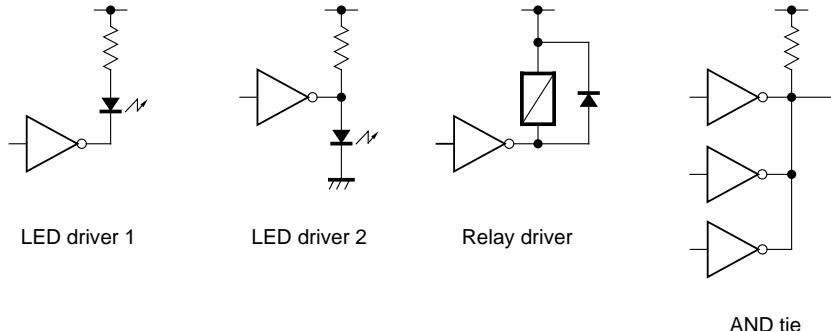


Fig.2

● Electrical characteristics curves

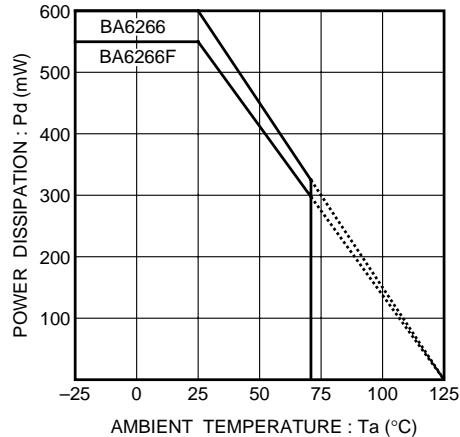


Fig.3 Power dissipation vs.  
ambient temperature

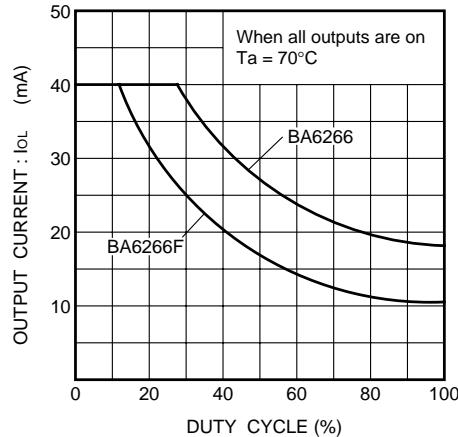


Fig.4 Output conditions diagram

● External dimensions (Units: mm)

