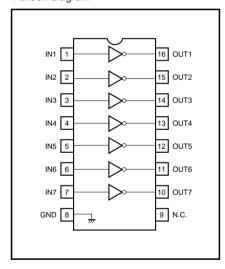
7-channel Darlington transistor array BA6250 / BA6250F / BA6251 / BA6251F

The BA6250F, BA6251F, and BA6251F are 7-channel transistor arrays particularly suitable for interfaces between a microcomputer in a VCR and the various ICs, or between one IC and another, and for low current drives such as LEDs.

Features

- 1) High withstanding output voltage of 30V (max.).
- 2) Output current of 20mA max. (V_{IN} ≥ 3V).

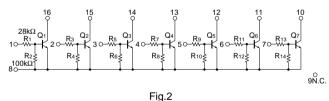
Block diagram



Internal circuit configuration

Fig.1

BA6251 / BA6251F



● Absolute maximum ratings (Ta = 25°C)

Parameter	Symbol	Limits	Unit
Power supply voltage	Vceo	30	V
Power dissipation	Pd	500*	mW
Operating temperature	Topr	– 25 ~ + 75	°C
Storage temperature	Tstg	- 55 ~ + 125	°C
Input voltage	Vin	30	V
Output current	Ю Мах.	30	mA

^{*} Reduced by 5mW for each increase in Ta of 1°C over 25°C.

9N.C.

●Electrical characteristics (unless otherwise noted, Ta = 25°C, Vcc = 12V)

Parameter	Symbol	Туре	Min.	Тур.	Max.	Unit	Conditions	Measurement circuit
Output power supply voltage range	Vo	BA6250 / BA6250F	_	12	28	٧	_	Fig. 3
		BA6251 / BA6251F		12	28		_	
Input high level voltage	Vıн	BA6250 / BA6250F	3	_	_	V	Iоит = 20mA	Fig. 3
		BA6251 / BA6251F	2	_	_		Iουτ ≧ 1mA	
Input low level voltage	VIL	BA6250 / BA6250F	_	_	0.6	V	Ιουτ ≦ 10μA	Fig. 4
		BA6251 / BA6251F	_	_	0.3		Ιουτ ≦ 10μA	
Output voltage	Vоит	BA6250 / BA6250F	_	_	1.4	V	Іоит = 20mA, Vin = 12V	Fig. 3
Output saturation voltage	VCE (sat)	BA6251 / BA6251F	_	0.3	_		Іоит = 10mA, V _{IN} = 12V	
Output current	Іоит	BA6250 / BA6250F	_	_	20	mA	V _{IN} ≧ 3V	Fig. 3
		BA6251 / BA6251F	_	_	20		V _{IN} ≧ 12V	
Input current	lin	BA6250 / BA6250F	_	_	0.6	mA	Іоит = 10mA, Vin = 12V	Fig. 3
		BA6251 / BA6251F	_	_	0.6		Іоит = 10mA, V _{IN} = 12V	
Output leakage current	IL	BA6250 / BA6250F	_	_	1	μΑ	Vcc = 28V, Vin = 0V	_

Measurement circuits

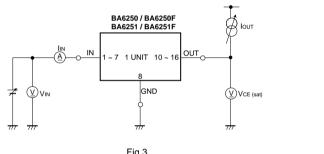


Fig.3

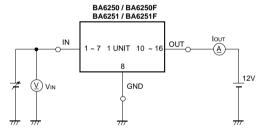


Fig.4

External dimensions (Units: mm)

