

LT205A (under development)

GaAs Hall IC for Fan Motor with Variable Speed by Temperature

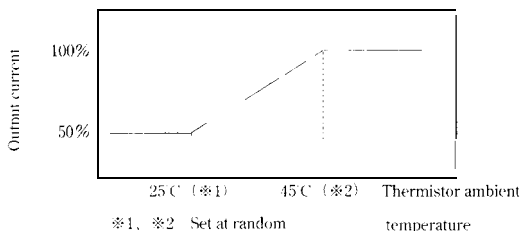
Features

- Space saving mounting due to combining a Hall device and a driver IC in a small 12-pin SOP package
- Wind control depending on calorific value
- Low noise
- With automatic reset and alarm output function when a motor is locked
- Surface mount type (Taping: 1,000 pcs/reel)

Applications

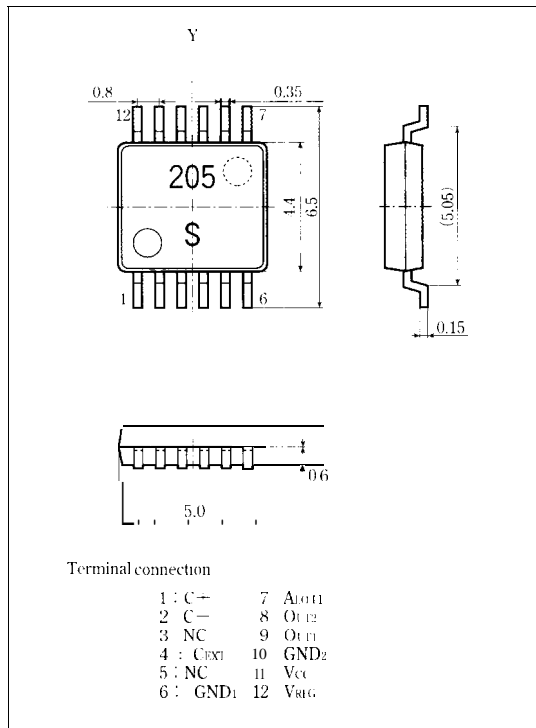
- Brushless fan motor
- Cooling fan motor for personal computers, word processors, etc.
- Directly cooling fan for cooling fin, PCB, etc.

Motor drive current vs. temperature (Example)



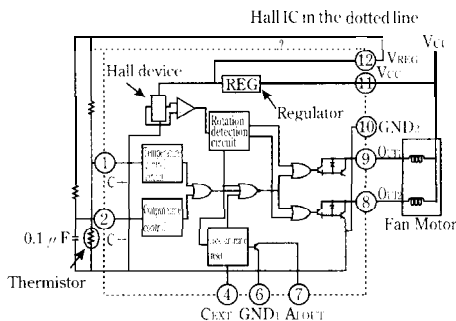
Outline Dimensions

(Unit : mm)



As for dimensions of tape-packaged products, refer to page 44.

Block diagram



Electrical Characteristics

(T_a = 25°C)

Parameter	Symbol	Conditions	MIN.	TYP.	MAX.	Unit
Operating supply voltage	V _{CC}		8	—	28	V
output current	I _{OUT}		—	—	(0.5)	A
Output saturation voltage	V _{OL1}	V _{CC} = 12V, I _O = 0.5A	—	—	(1.5)	V
output cut-off current	I _{OC}	V _O = 55V	—	—	30	μ A
Operating magnetic flux density	B ₁		-10	—	—	mT
	B ₂		—	—	10	mT

SHARP

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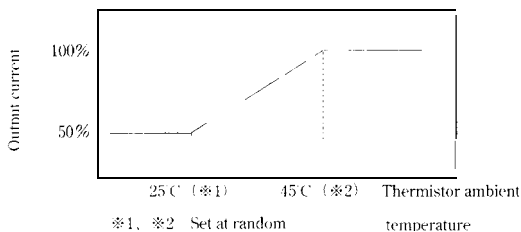
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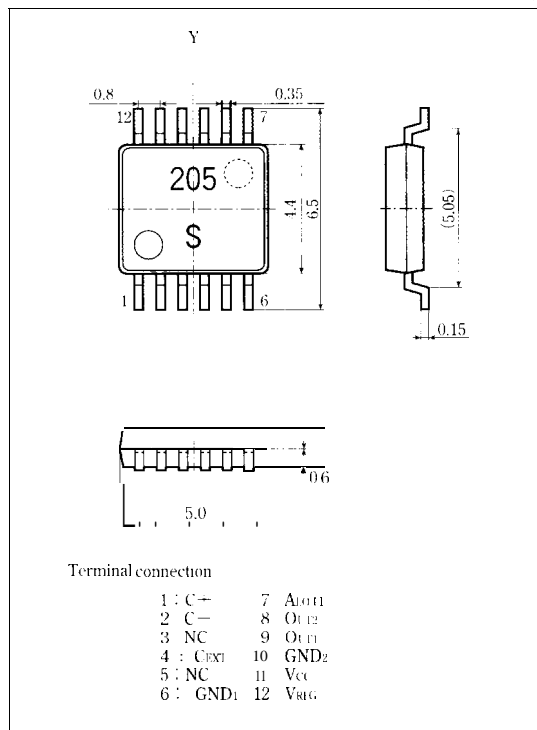
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■ Motor drive current vs. temperature (Example)



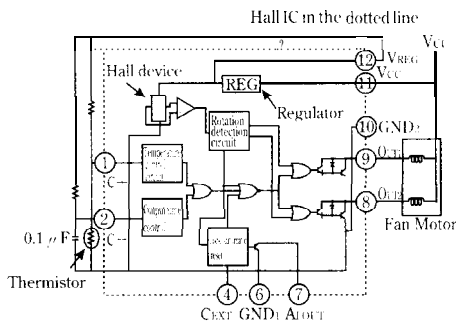
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SHARP