SUNON®

100x100x25 mm
for Automative Application

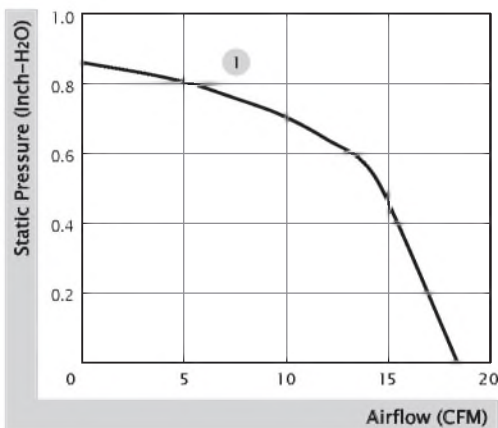## 18.4 CFM
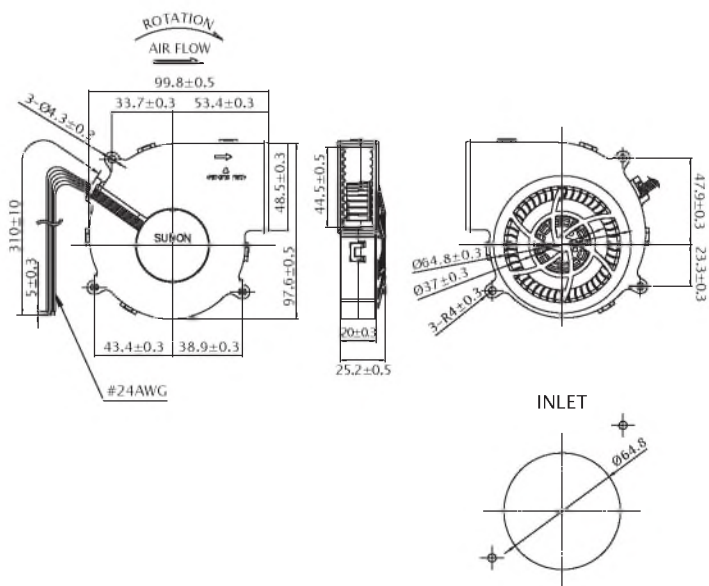
■ Specification

Model	Bearing	Rated Valtage	Power Current	Power Consumption	Speed	Airflow	Static Pressure	Noise	Weight	Curve
	2BALL Sleeve	(VDC)	(mA)	(WATTS)	(RPM)	(CFM)	(inch-H2O)	(dB(A))	(g)	
AFA0251B1-1B000-H99	●	13.5	520	7.02	3800	18.4	0.86	52.3	110	1

■ Function   PWM : S99

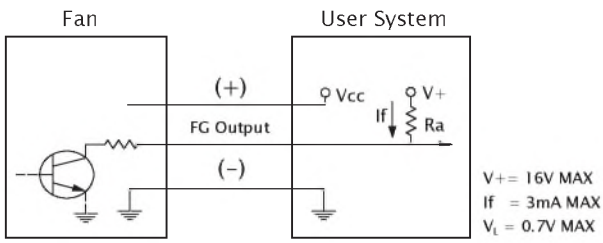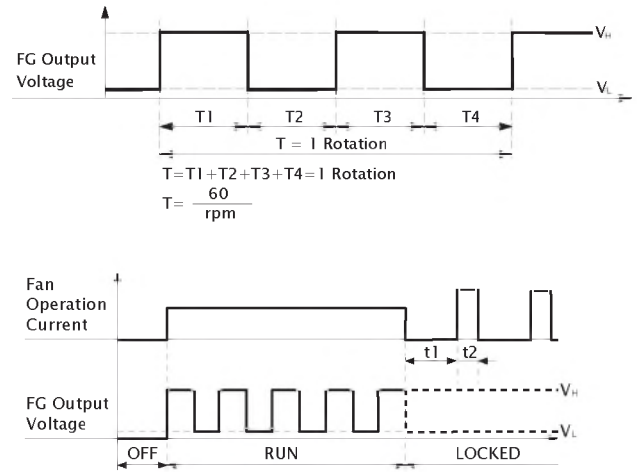■ Air Flow-Static Pressure Characteristics

■ External dimensions(mm)

※ All model could be customized. Please contact with Sunon Sales.
※ Specifications are subject to change without notice. Please Visit SUNON website at www.sunon.com for update information.

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■ FG Output Signal
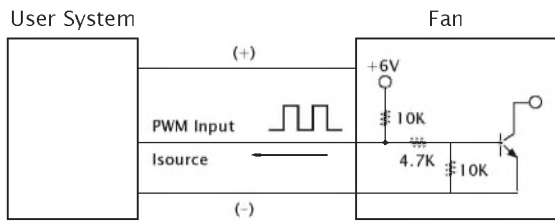
Fan   User System

(+) ○ Vcc   ○ V+
FG Output   If ↓ ⊰ Ra
(−)

V+ = 16V MAX
If = 3mA MAX
V_L = 0.7V MAX

[FG Signal]

FG Output Voltage

V_H
V_L

T1   T2   T3   T4
T = 1 Rotation

T=T1+T2+T3+T4= 1 Rotation

$$T= \frac{60}{rpm}$$

Fan Operation Current

t1 t2

FG Output Voltage

V_H
V_L

OFF   RUN   LOCKED

■ PWM Input Signal
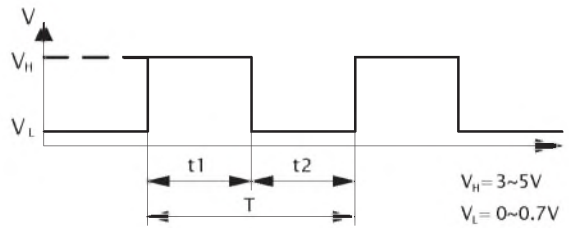
User System   Fan

(+)
+6V ○
PWM Input   ⊰ 10K
Isource   4.7K ⊰ 10K
(−)

PWM FREQUENCY: 25KHZ

Isource=2mA at PWM Input Voltage 0V

The speed is default to be maximum if PWM input pin is unconnected.

Min. start up duty cycle is 10%.

V
V_H
V_L

t1   t2
T

V_H= 3~5V
V_L= 0~0.7V

1. Period : $T= \dfrac{1}{f_{PWM}} =t1+t2(sec)$

2. Duty Cycle（D.C.）: $\dfrac{t1}{t1+t2} \times100= \dfrac{t1}{T} \times100(\%)$

■ PWM Curve

Speed (RPM): 4000, 3500, 3000, 2500, 2000, 1500, 1000, 500, 0

Duty Cycle (%): 0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

B1