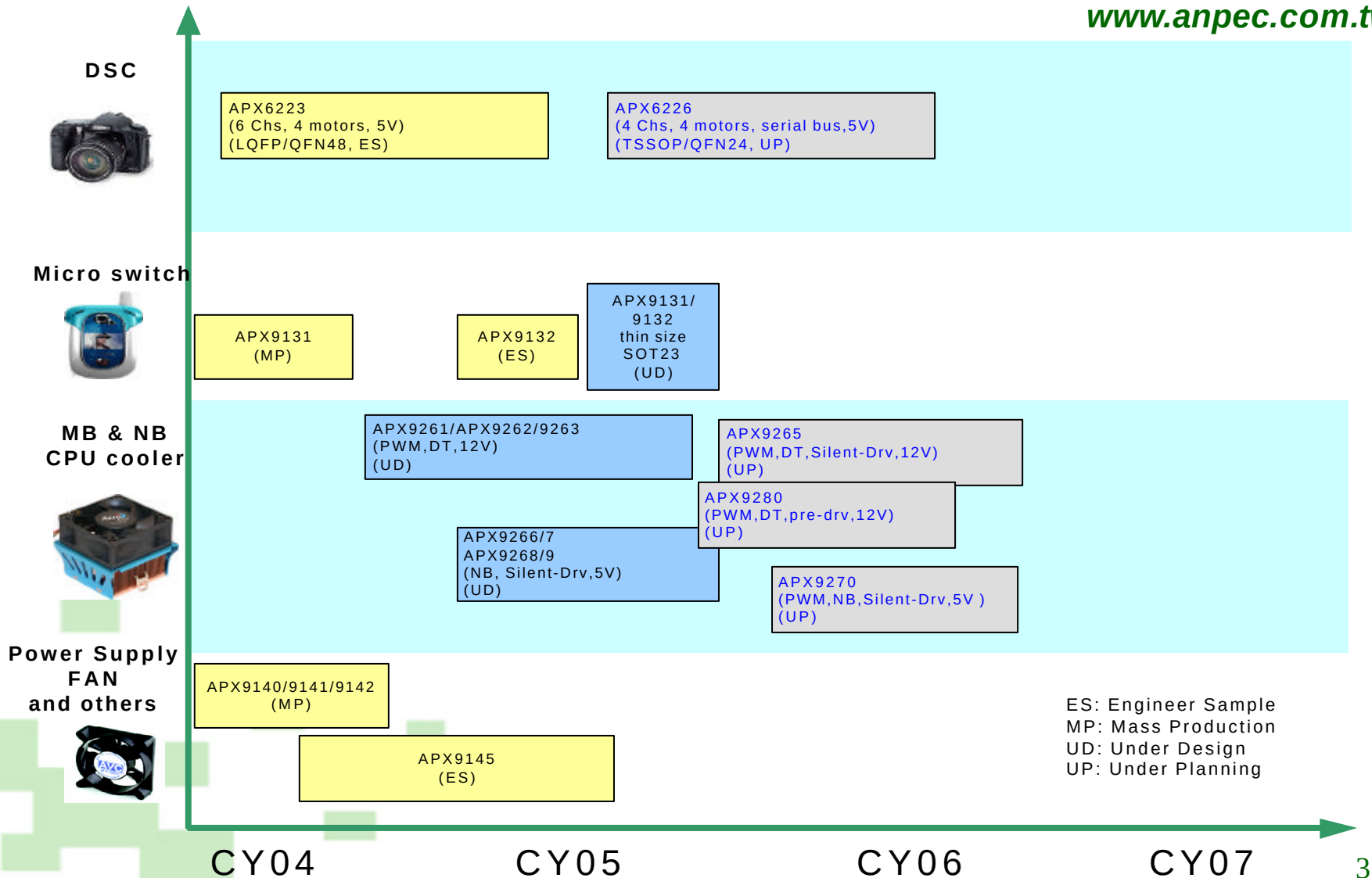


APX Motor Drivers DC Fan Application

Jeremy Shen
2005 / Jul

- . APX Roadmap*
- . 8 cm power supply fan solution*
- . 4~6 cm fan solution*
- . MB CPU cooler fan solution*
- . NB CPU cooler fan solution*
- . Q&A*

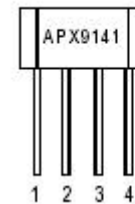
APX Roadmap



APX9140 / 1 / 2

Features:

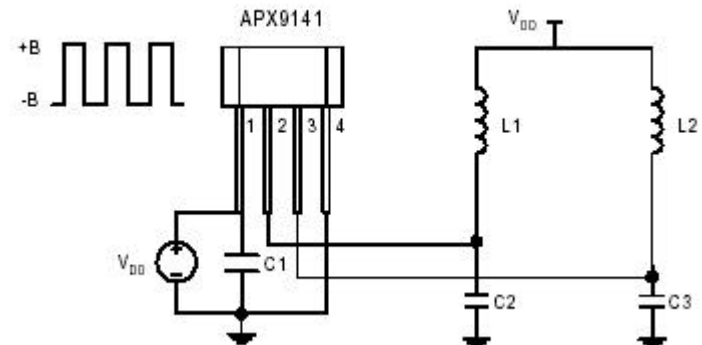
- +12V typical operation, 3V low voltage operation
- On-chip hall sensor , versatile sensitivity & hysteresis setting
- On chip reversed voltage protection (9141/2)
- High output sinking capability up to 400mA
- TO-92M4 package



Front View

- 1 : V_{DD}
- 2 : DO
- 3 : DOB
- 4 : GND

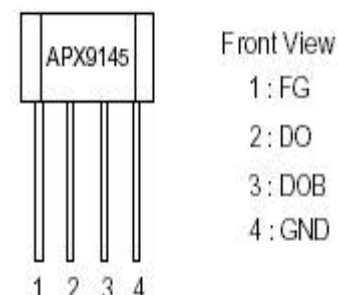
Application: 8 cm power supply fan driver



APX9145

Features:

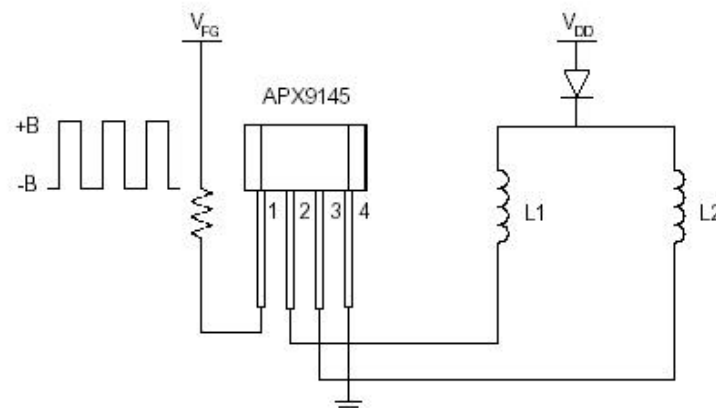
- 12V typical operation
- On-chip hall sensor , high $\pm 65\text{G}$ sensitivity
- Build-in Zener diodes to clamp output peak voltage
- High output sinking capability up to 400mA
- Build-in frequency generation output (FG)
- TO-92M4 package (Lead free)



Application: 4~6 cm fan driver

ES: now

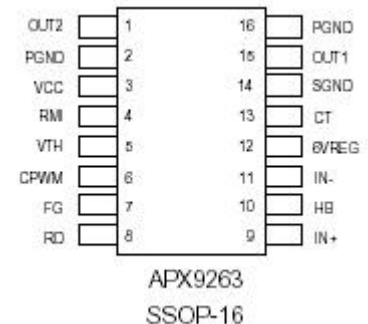
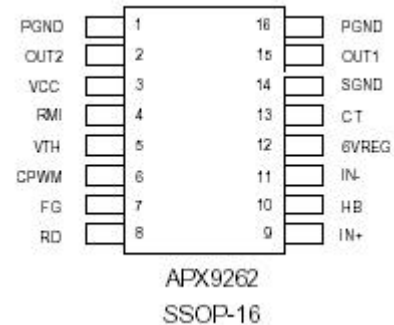
Typical DC brushless fan application circuit



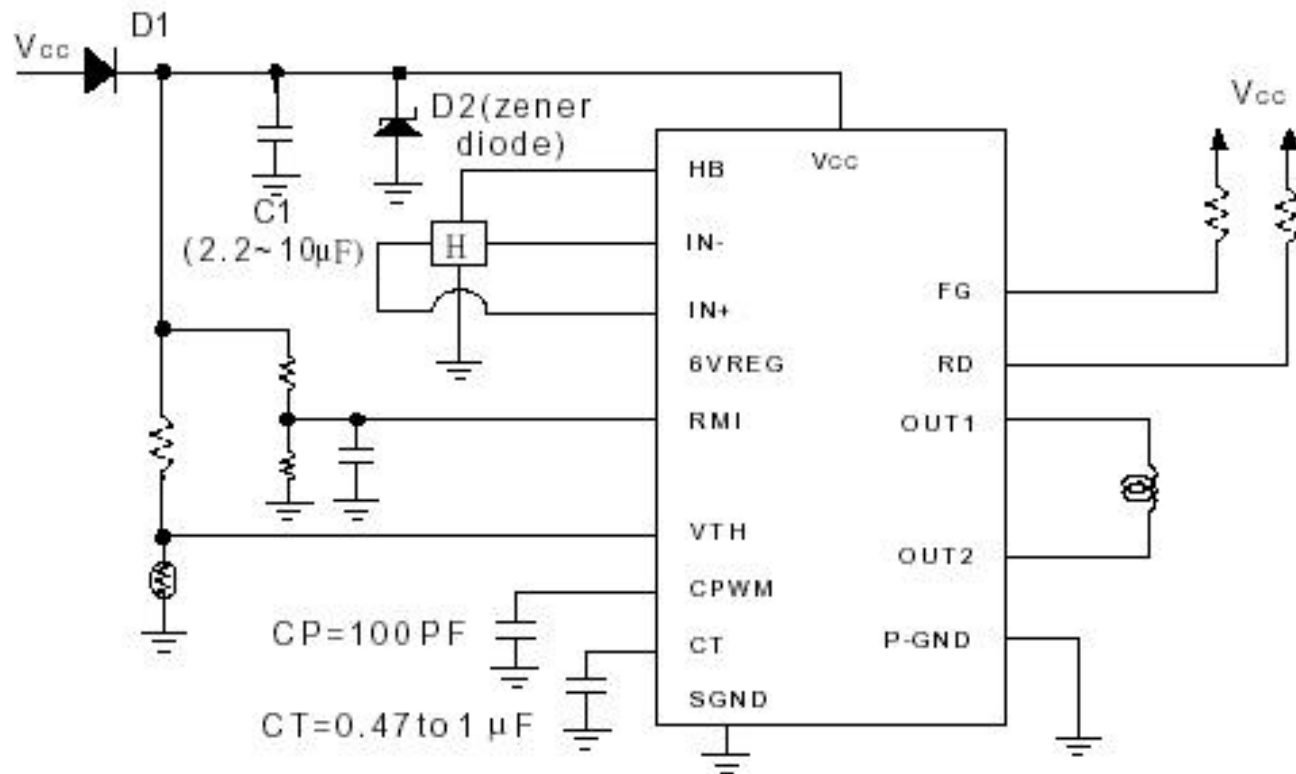
Features:

- Single phase full way drive
- Low supply current
- Build-in variable speed function with thermistor input signal
- Build-in re-circulation diodes
- Hall bias circuit include
- Min. speed settable
- Build-in lock detection & auto restart function
- FG & RD output selectable
- TSD
- SSOP-16 package (Lead free)

Application: PC MB 915, 925,.... series CPU cooler
4 pins interface with PWM input

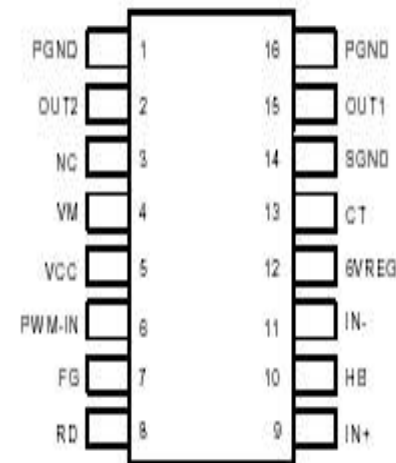


APX9262 / 3 application



Features:

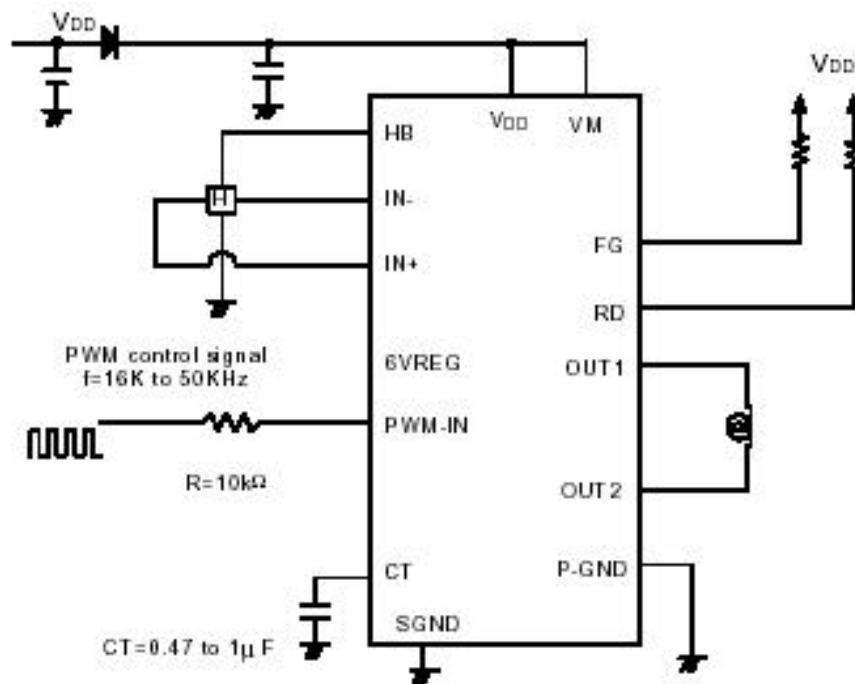
- Single phase full way drive
- Low supply current
- Ext. PWM control build-in (16K ~50K), rotation stop, min. speed, & max. speed can be adjusted by PWM duty
- Build-in re-circulation diodes
- Hall bias circuit include
- Build-in lock detection & auto restart function
- FG & RD output selectable
- TSD
- SSOP-16 package (Lead free)



Application: PC MB 915, 925,.... series CPU cooler 4 pins interface with PWM input

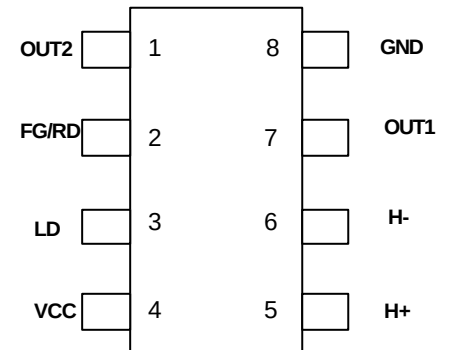
ES: 2005/Q4

APX9261- application



Features:

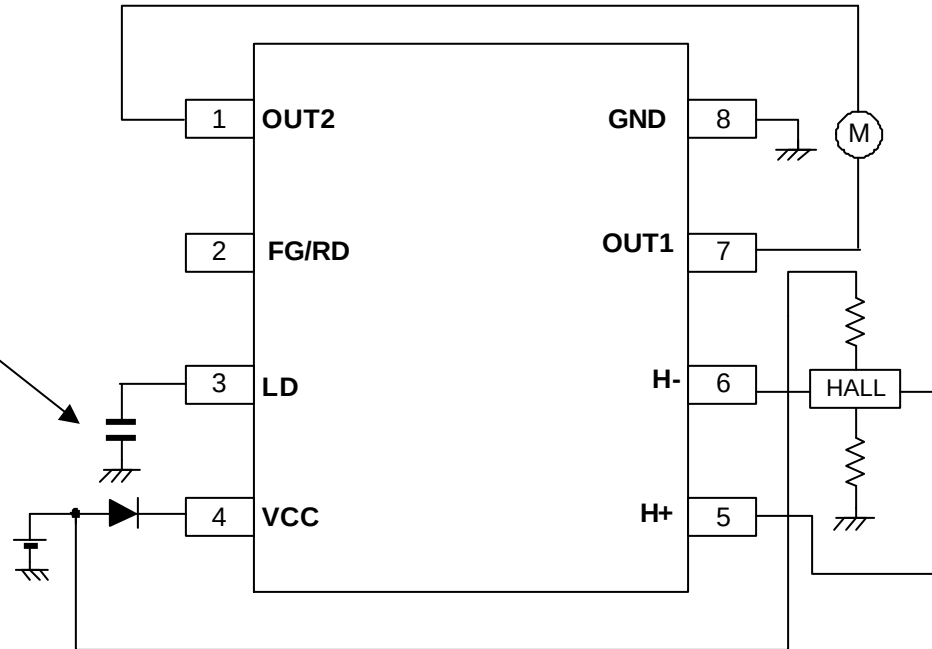
- 5V typical operation
- Single phase full way drive
- 1A output sinking capability
- Silent-driv technology for acoustic noise
- Hall bias circuit included
- Auto restart & lock detection
- Auto restart without external capacitor
- FG(9266)/RD(9267) build-in support
- SOP-8 package (Lead free)



Application: NB CPU cooler

ES:2005/Q4

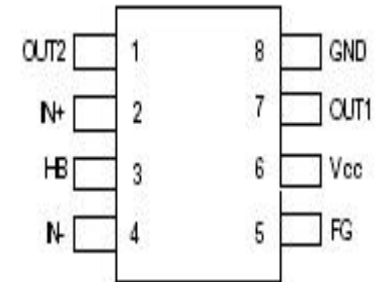
APX9266 / 7 - application



No need capacitor

Features:

- 5V typical operation
- Single phase full way drive
- 1A output sinking capability
- Silent-drv technology for acoustic noise
- Hall bias circuit include
- Auto restart & lock detection
- Auto restart without external capacitor
- FG(9268)/RD(9269) support
- SOP-8, MSOP-8 package (Lead free)



Application: NB CPU cooler

ES:2005/Q4

ANPEC

