

Aeroflex PWM 5031/32 RadHard Pulse Width Modulators

A Joint partnership with JHU/APL on the

Mars Technology Program Low Power Converter (LPC) Task

January 2007

www.aeroflex.com/PWM



PWM5031/2 strategic Product



- ▼ **These devices will be specified by NASA programs on their PAPL (Project Approved Parts List)**
 - **The DC/DC Merchant market arena will be able to buy this from us**
- ▼ **Will support OEM “in house” power supply developments when outsourcing is not an option**
 - **Will support Low Drop Out Voltage Regulators**

Our Value Added Proposition



- ▼ **Lower Power than SG1843 / 1524**
- ▼ **More features than SG1843**
- ▼ **Competitive Pricing with good availability**
- ▼ **Radiation Hardened**
- ▼ **Competitive pricing**
- ▼ **SMD Drawing**

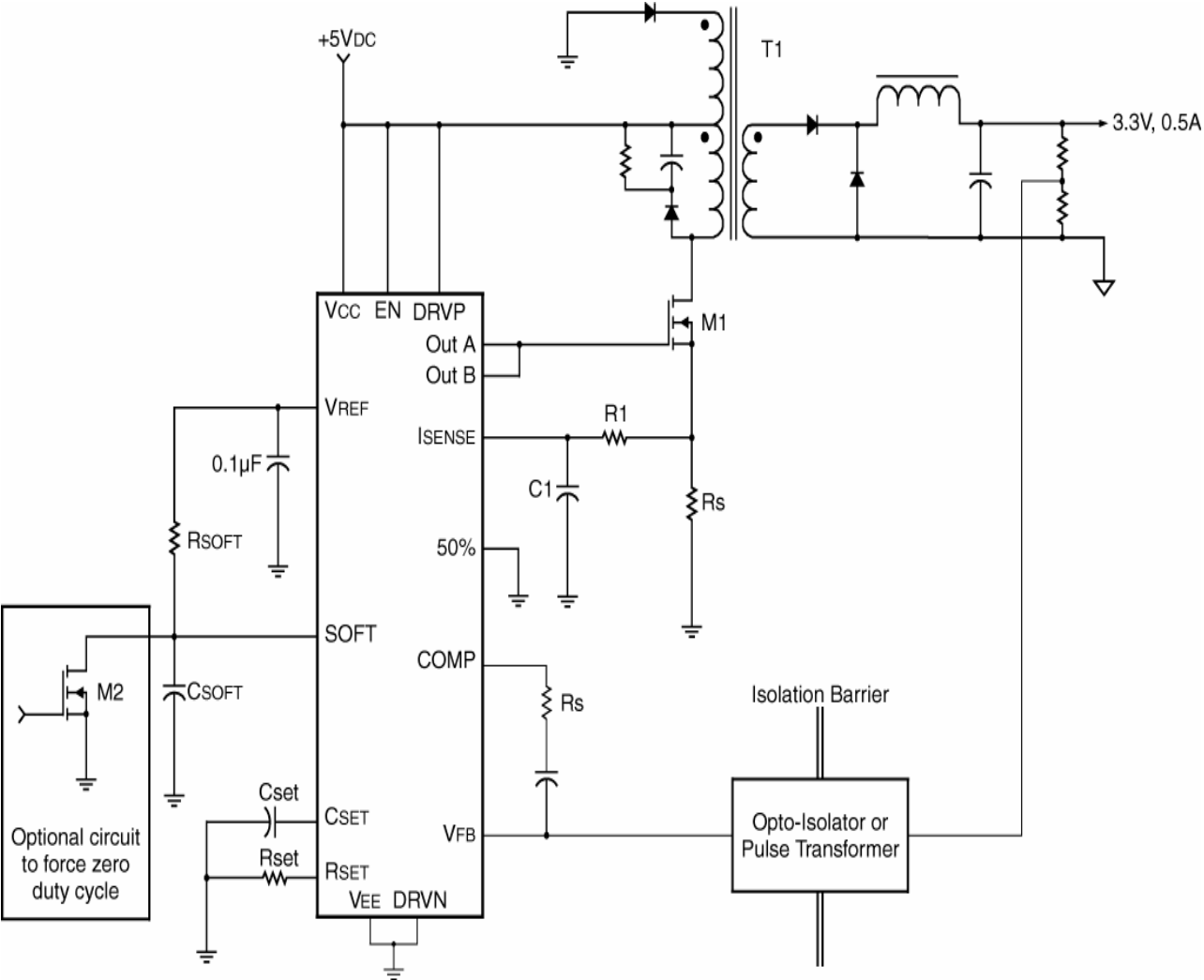
Applications



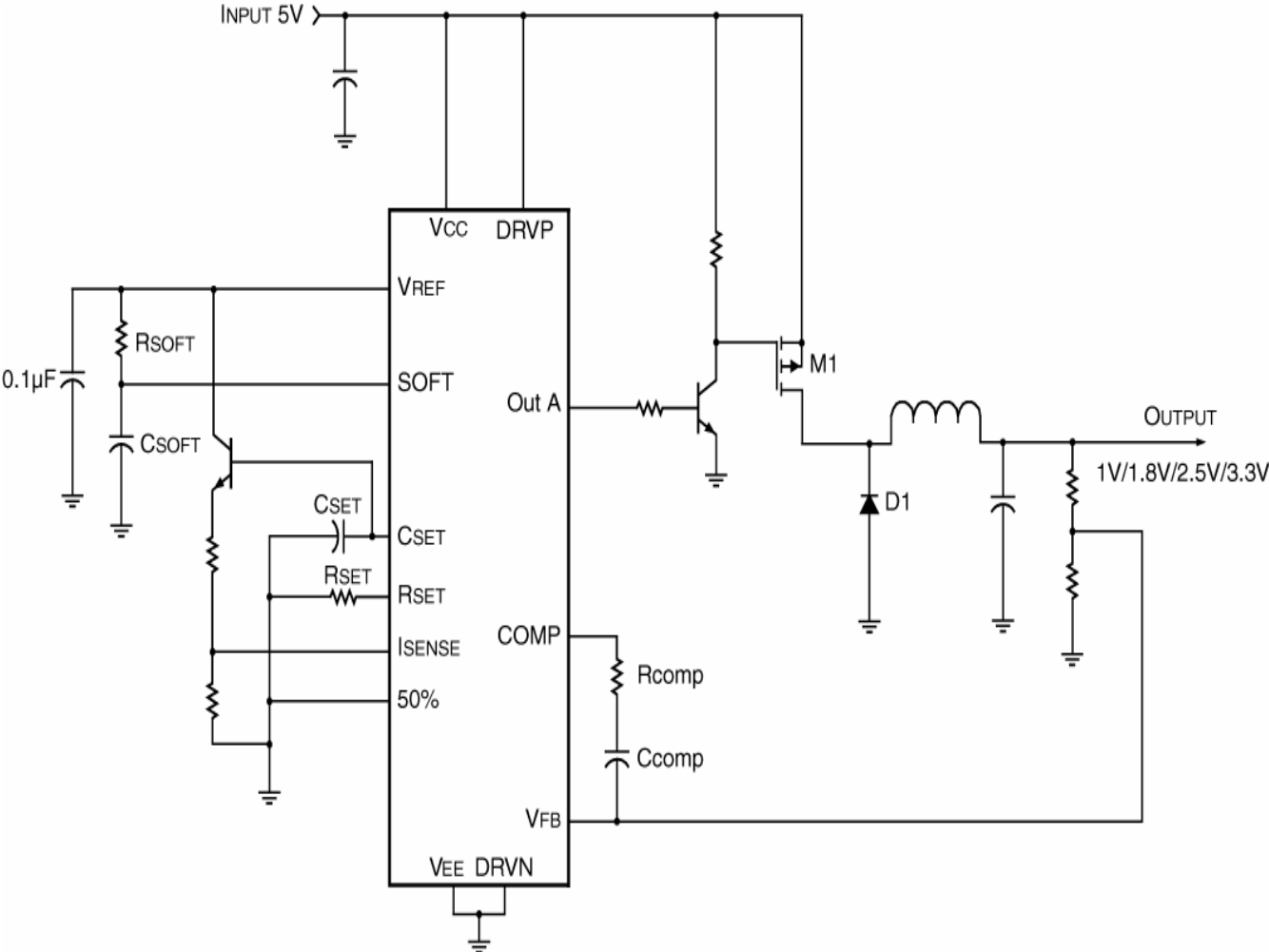
- ▼ **DC/DC Converters:**
 - **Current Mode or Voltage mode Switching Power Supplies**
 - ▼ **Buck**
 - ▼ **Flyback**
 - ▼ **Boost**
 - ▼ **Forward and Center tapped push-pull converters**
 - ▼ **CUK Converter**

- ▼ **Motor Drive applications using PWM**
 - **Simple brushless motor control applications**

Forward Converter



Buck Converter



Key Features

Standard Class K Product

PWM 5031 & PWM 5032



Small but mighty!

- ◆ RadHard technology
- ◆ Low Power Dissipation
- ◆ Sleep & Enable CTL's
- ◆ Selectable 50%/100% Duty Cycle
- ◆ +/-50ma continuous totem-pole drive
- ◆ AUX OP-AMP
- ◆ Long term Reference stability over temp

Schedule



- ▼ **Released Data Sheet on Web**
 - www.aeroflex.com/PWM
- ▼ **Product available**
- ▼ **PWM5031/2-EVAL (Evaluation Board) available**
- ▼ **SMD # 5962-06251 available**
- ▼ **PWM5032 FAB run started Dec. 2006**
 - **Samples expected 2QCY'07**
 - **Qualification scheduled 3QCY'07**

Packaging Options



- ▼ **Hermetic (Standard)**
- ▼ **Solder Dip**
- ▼ **Tape and Reel**
- ▼ **Gull Lead (Std)**
- ▼ **Waffle Packaged Die (Std)**

Factory Support



- ▼ **Steve Friedman, Standard Products Marketing Manager, 516-752-2456**
- ▼ **Ron Sulyma, Engineering Manager, 516-752-2451**
- ▼ **Phil Ellis, Field Engineer, 315-951-4164**
- ▼ **Check our Web**
 - **www.aeroflex.com/PWM**