

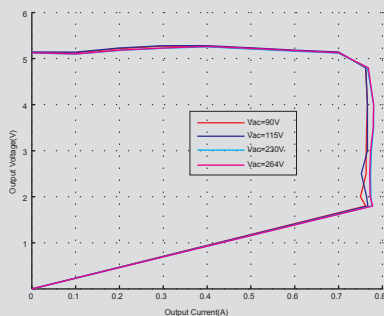
## High Precision CC/CV Primary-side Regulation PWM Controller

### Description:

OB2532 is a high performance offline PWM controller for low power AC/DC charger and adaptor applications. It can achieve  $\pm 5\%$  constant voltage(CV) and high precision constant current(CC) with primary-side sensing and regulation. Consequently, opto-coupler and TL431 could be eliminated.

### Applications:

- CC/CV Battery Charger
  - Cell/Cordless Phone Charger
  - Digital Camera Charger
  - PDA Charger
- Small Power Adapter
- Auxiliary Power for PC, TV etc.
- Linear Regulator/RCC Replacement



OB2532 I-V Curve

### Features:

- Primary-side sensing and regulation without TL431 and opto-coupler
- $\pm 5\%$  constant voltage regulation at universal AC input
- Programmable CV and CC regulation
- Adjustable constant current and output power setting
- Built-in secondary constant current control with primary side feedback
- Built-in adaptive current peak regulation
- Built-in primary winding inductance compensation
- Programmable cable drop compensation
- Power on soft-start
- Built-in leading edge blanking (LEB)
- Cycle-by-Cycle current limiting
- VDD under voltage lockout with hysteresis (UVLO)
- VDD OVP
- VDD clamp
- Available in SOT23-6 packages, RoHS compliant

### Typical Application:

