SPX1580: FAQ

Solved by **Sipex™**

Part Number: SPX1580
Date: June 12, 2006

Question:

The original question was about the Alpha Semiconductor AS1580, which was not stable on the customer's board. There were two sockets for the AS1580. Both sockets were the same circuit except for the Vctrl pin. First one had 5V for Vctrl and the other had 12V. 5V for Vctrl is the recommend in the [AS1580] datasheet, but it appeared that 12V was acceptable per the datasheet. As a result, the 5V board was stable but the 12V board was not stable.

Answer:

 The AS1580 is not a part from Sipex Corporation rather it is from Alpha Semiconductor. However, Sipex does offer a drop in replacement for the AS1580 and it is the SPX1580.

Regarding your stability problem with the Vctrl at 12V, the SPX1580 data sheet on page 3 states that the Vctrl must be between 0.1V to 1.3V greater than Vin for the device to regulate properly. We suggest that you use a Vctrl voltage within this range for proper operation.