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Application Note Number77.....

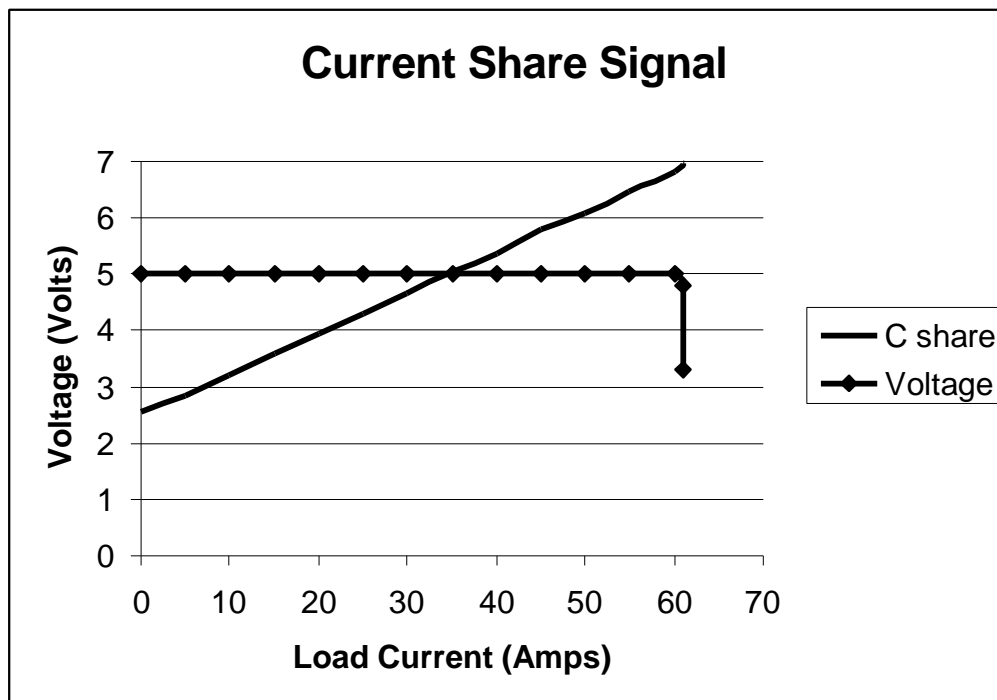
Product : LPS252
Application Overview: Single wire parallel signal characteristic

Originator: G. Fry

Location: Merry Hill

Date: 24/2/99

Schematic



Description

The current share signal of the LPS250 series is set so that at maximum current, (50A), the voltage is 6.0V +/-3%. This is factory set by trimmer VR402. This is located on the vertical daughterboard and is the third trimmer from the output connector end of the power supply.

When two power supplies are connected in parallel the signal on the current share line will cause both power supplies to produce the same current and therefore share equally within +/-3%. If one power supply fails in a redundant setup with isolating output diodes, the other one can then supply all the current. The current share pin will go high impedance and not load the active power supply.

The current share signal can be used as a current monitor signal, the characteristic is shown above. This pin should be buffered to any monitoring circuit. The current limit of this power supply is of the constant current type. The knee of the current limit is at approximately 61A.