



Figure 2 below shows the current sharing of three MP5921 devices in parallel during a soft start with a DC load. All three devices in parallel share the soft-start load current evenly.

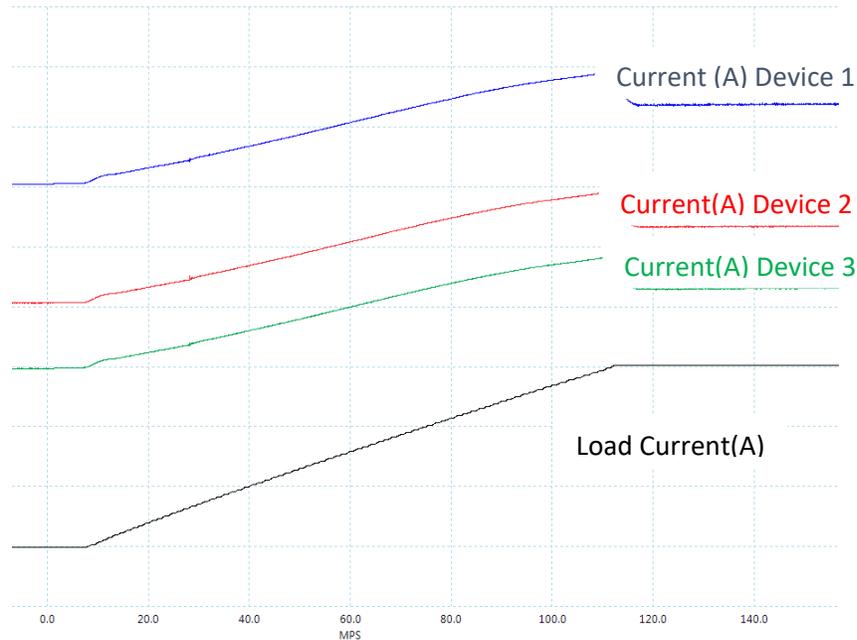


Figure 2: Three MP5921 Devices in Parallel

If the traces for the individual currents are set on the same origin point, it can be seen that they overlap exactly (see Figure 3).

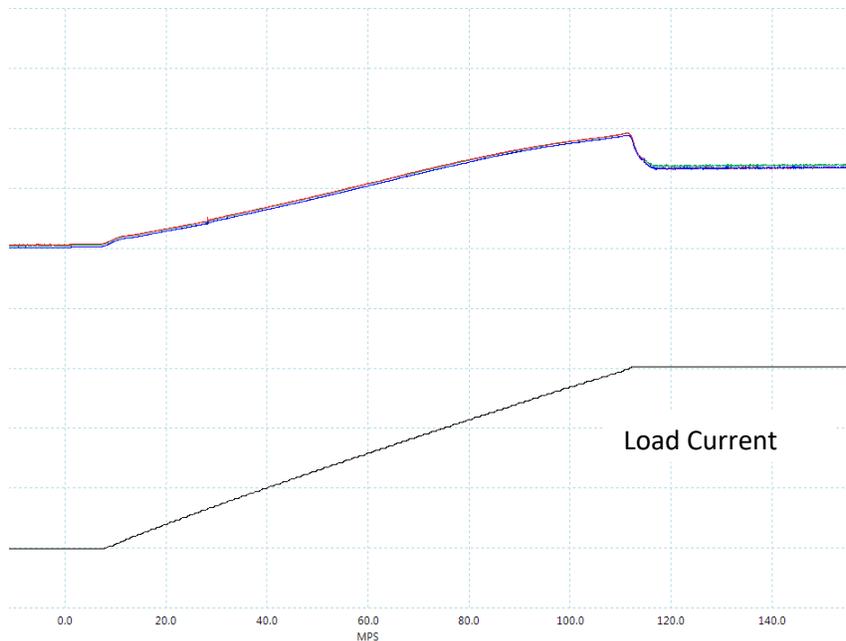


Figure 3: Currents with Same Origin Point

The MP5921 can be scaled to support any current range needed for hot-swap and e-fuse solutions. With a 60A current rating in a 4mmx5mm package, the MP5921 provides an extremely dense hot-swap/e-fuse solution. Each MP5921 has built-in protection features that monitor for damaged MOSFET, over-temperature conditions of the internal MOSFET, soft-start watchdog timer, and over-current protection.

The MP5921 also has a built-in short-circuit protection (SCP) feature that can disable the internal MOSFET within 200ns of a short detection. This quick disabling function prevents a large build-up of current on the PCB where output shorts occur.

The [MP5921](#) provides a robust and user-friendly solution for space-critical designs that can be scaled to meet the design requirements of all types of hot-swap/e-fuse applications.