

Output Voltage Transient Response

As shown in *Figure 2*, capacitors contain parasitic resistance (called "ESR" for equivalent series resistance) and also parasitic inductance (called "ESL" for equivalent series inductance), both of which affect transient response. *Figure 3* shows an actual voltage waveform recorded on the output of a linear regulator when the load current was increased very quickly (similar to the example shown in *Figure 2*):

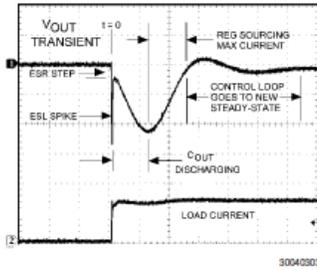


FIGURE 3. Output Voltage Transient