

LDO Bring-Up Checklist

Power-up, measurement, transient/stability/thermal validation.

- Sequence: enable order vs reference rails; pre-bias behavior check.
- Noise setup: analyzer BW, window, AC coupling; document settings.
- PSRR sweep: 100 Hz–2 MHz; note VIN ripple source and amplitude.
- Transient tests: specify ΔI , edge rate, recovery time; overshoot limits.
- Stability check: C/ESR within window; step-response shape and ringing.
- Thermals: compute P_{diss} ; measure case temp; compare with $R\theta_{JA}$ prediction.
- Light-load behavior: minimum load or RC bleed; watch for hiss/burst modes.
- Protections: OCP/OTP/short; reverse current and discharge FET behavior.
- Record sheet: pass/fail per corner (VIN, T, load); capture scope screenshots.