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PERFORMANCE CHECKSHEET

Model: AVO-9A-B-P1B-T1B-P
Type: Ultra-High-Speed Laser Diode Driver
S.N.: 12917
Date: October 26, 2012

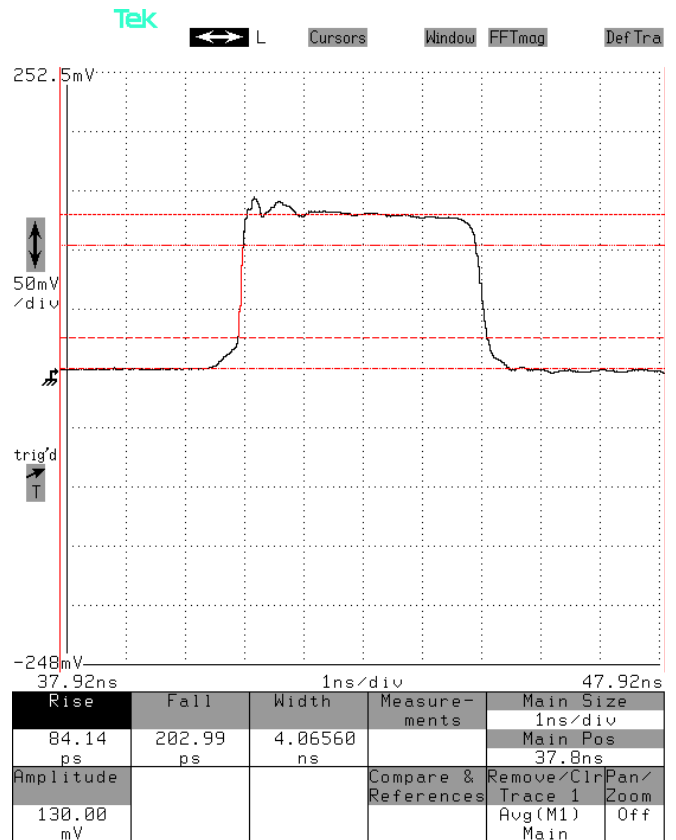
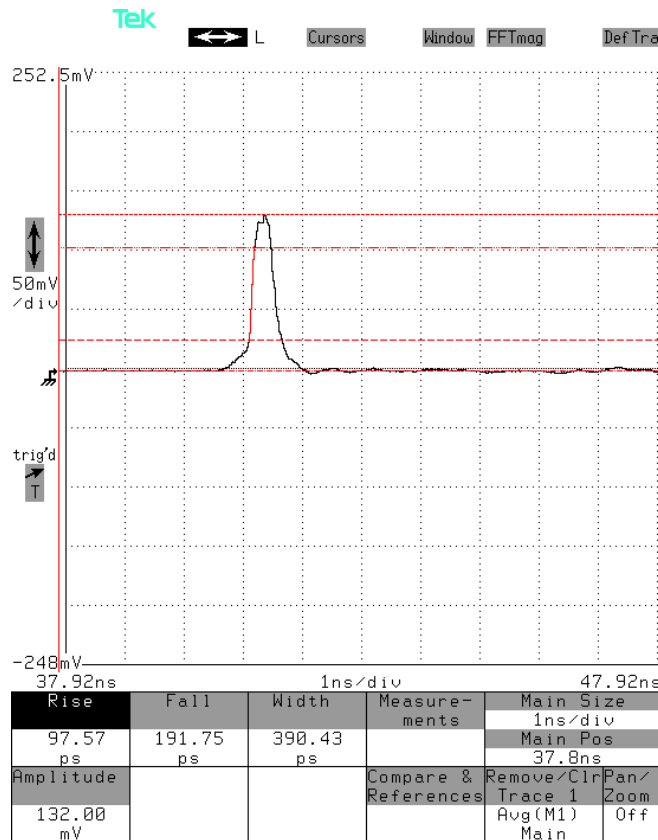
Output Amplitude: up to +13V, to 50Ω
Pulse Width (FWHM): 0.4 - 4 ns
Rise Time (20%-80%): ≤ 200 ps
Fall Time (80%-20%): ≤ 200 ps
PRF: 1 Hz – 1 MHz
Jitter, Stability: OK
Prime Power: 100-240V AC, 50-60 Hz.

Basic specifications: →

Test Waveforms

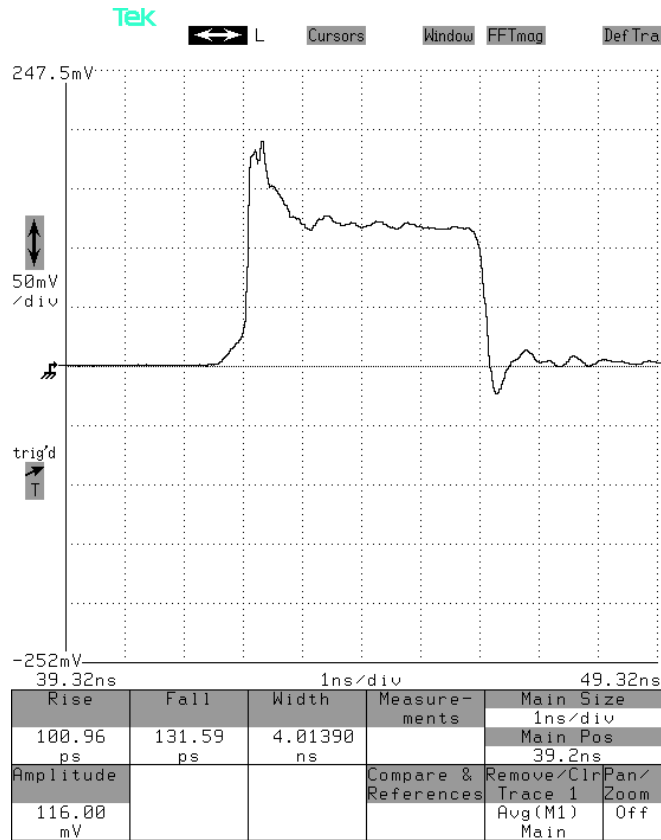
Pulse into 50 Ohm load at 100 kHz, 0.4 ns, +13V,
1 ns/div. 5 V/div (50 mV × 40 dB):

Pulse into 50 Ohm load at 100 kHz, 4.0 ns, +13V,
1 ns/div. 5 V/div (50 mV × 40 dB):



“MI” output of AVX-S1-P1B-T1B into 50 Ohms,
 for +13V, 100 kHz, 4 ns pulse width, with a
 1N4148 test diode installed in the output sockets:

1 ns/div. 0.5 V/div (50 mV × 20 dB, ≈ 105 mA/div):



The spike on the leading edge is caused primarily by the short-but-nonzero (~ 1 ns) turn-on time of the 1N4148.