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PERFORMANCE CHECKSHEET

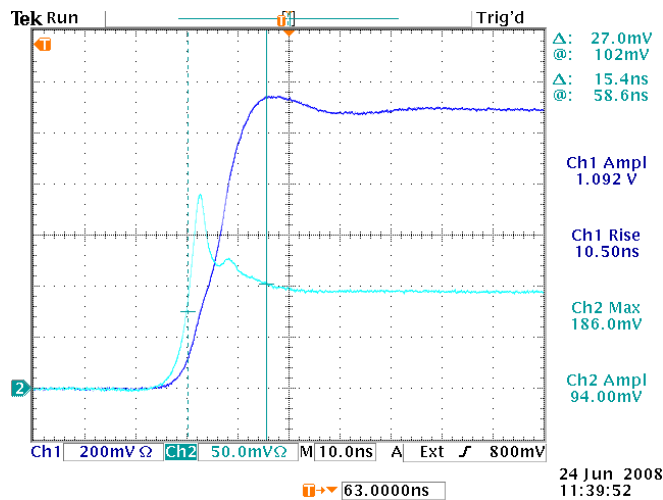
Model: AVR-EBF6-B-ANB-F8NS-F12NS
Type: Forward Recovery Test System
S.N.: 12039
Date: June 24, 2008

Output Amplitude: 100 mA to 1 A
Pulse Width (FWHM): 200 ns to 10 us
Rise Time (10%-90%): 8, 10, 12 ns, depending on the filter used
PRF: 1 Hz - 100 Hz
Jitter, Stability: OK
Prime Power: 100-240V AC, 50-60 Hz.

Basic specifications: →

Test Waveforms

1N6442 SAMPLE WAVEFORM (Sample #108)



Dark blue: MON output ($V_{IN}/10$, +10.9V, with ~ 10 ns rise time). 200 mV/div, 10 ns/div.

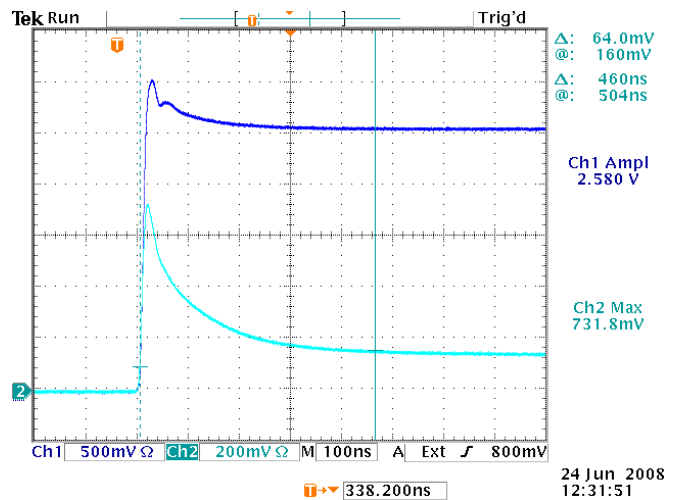
Light blue: Main output ($V_{DUT}/10$). 50 mV/div, 10 ns/div.

Shows $V_{FM} = 1.86V$, and $t_{FR} = 15.4$ ns for $I_F = 200$ mA, using the recovery point 10% above steady state.

The MIL-PRF-19500/578H specification calls for $V_{FM} < 5V$ and $t_{FR} < 20$ ns.

Tested using the AVX-TFR-ANB test jig and the AVX-FILT-10NS filter.

1N6625 SAMPLE WAVEFORM (Sample #437)



Dark blue: MON output ($V_{IN}/10$, +25.8V, with ~ 12 ns rise time). 500 mV/div, 100 ns/div.

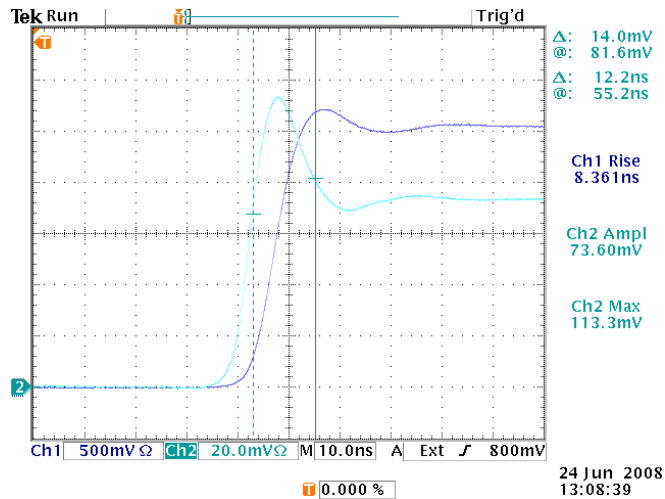
Light blue: Main output ($V_{DUT}/10$). 200 mV/div, 100 ns/div.

Shows $V_{FM} = 7.318V$, and $t_{FR} = 460$ ns for $I_F = 500$ mA, using the recovery point 10% above steady state.

The MIL-PRF-19500/585F specification calls for $V_{FM} < 30V$.

Tested using the AVX-TFR-ANB test jig and the AVX-FILT-12NS filter.

1N5811US SAMPLE WAVEFORM



Dark blue: MON output ($V_{IN}/10$, +25.8V, with ~ 8 ns rise time). 500 mV/div, 10 ns/div.

Light blue: Main output ($V_{DUT}/10$). 20 mV/div, 10 ns/div.

Shows $V_{FM} = 1.13V$, and $t_{FR} = 12.2$ ns for $I_F = 500$ mA, using the recovery point 10% above steady state.

The MIL-PRF-19500/477H specification calls for $V_{FM} < 2.2V$ and $t_{FR} < 15$ ns.

Tested using the AVX-TFR-SQMELF test jig and the AVX-FILT-8NS filter.

(This device was not provided by the client. It is an Avtech internal sample.)