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PERFORMANCE CHECKSHEET

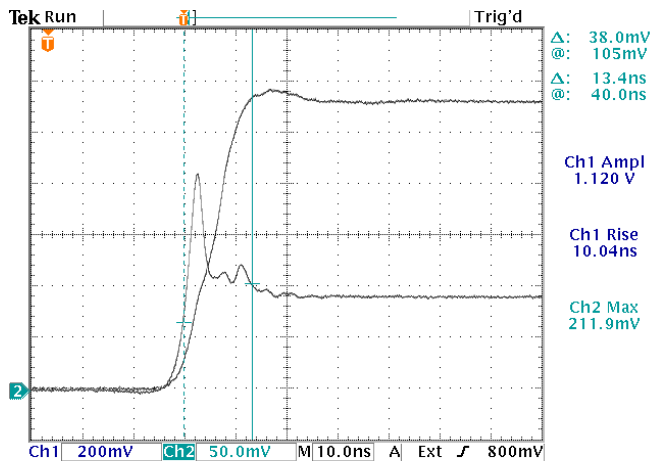
Model: AVR-EBF6-B-F8NS-ANB
Type: Forward Recovery Test System
S.N.: 12179
Date: December 15, 2008

Output Amplitude: 100 mA to 1 A
Pulse Width (FWHM): 200 ns to 10 us
Rise Time (10%-90%): 8 or 10 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 (RSM sample #108)



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

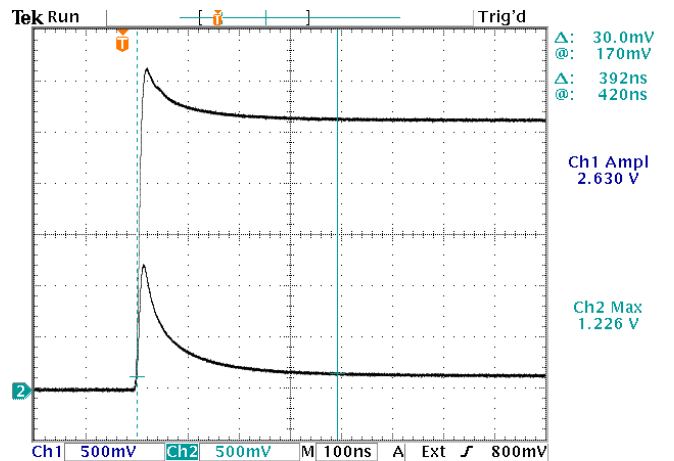
Light blue: Main output ($V_{DUT}/10$). 50 mV/div, 10 ns/div.

Shows $V_{FM} = 2.12V$, and $t_{FR} = 13.4$ 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 (RSM sample #437)



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

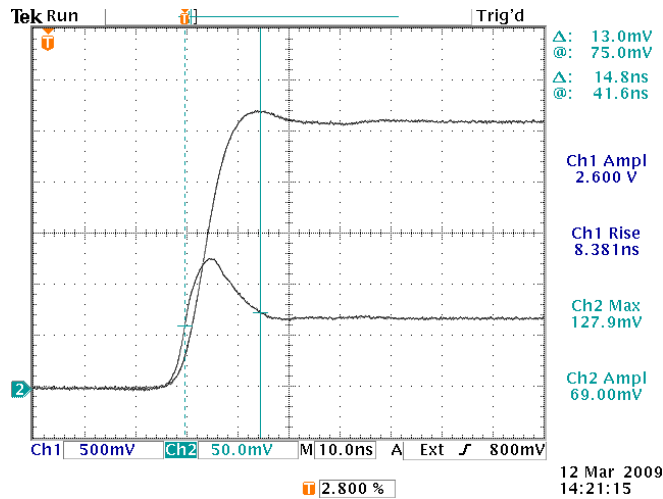
Light blue: Main output ($V_{DUT}/10$). 500 mV/div, 100 ns/div.

Shows $V_{FM} = 12.26V$, and $t_{FR} = 392$ 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-10NS filter.

1N5811 sample waveform (SSDI sample #014)



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

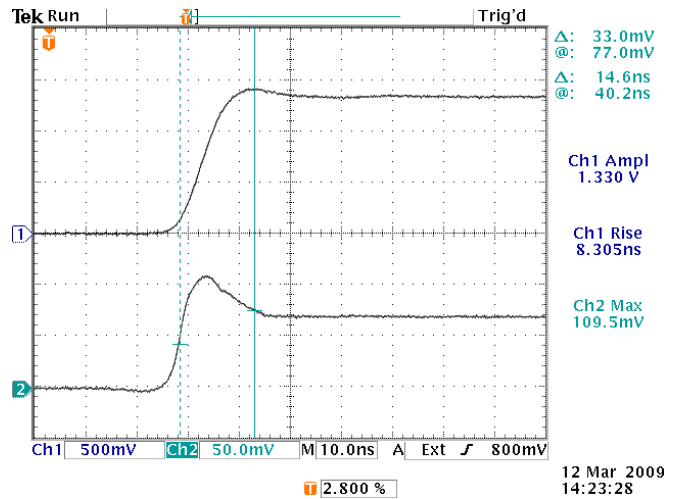
Light blue: Main output ($V_{DUT}/10$). 50 mV/div, 10 ns/div.

Shows $V_{FM} = 1.279V$, and $t_{FR} = 14.8$ 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-ANB test jig and the AVX-FILT-8NS filter.

1N5806 sample waveform (SSDI sample #0068)



Dark blue: MON output ($V_{IN}/10$, +13.2V, with ~ 8 ns rise time). 500 mV/div, 10 ns/div.

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

Shows $V_{FM} = 1.095V$, and $t_{FR} = 14.6$ 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-ANB test jig and the AVX-FILT-8NS filter.