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PERFORMANCE CHECKSHEET

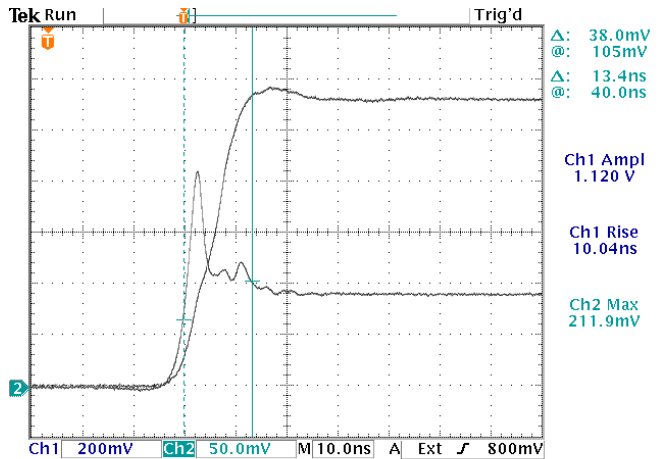
Model: AVR-EBF6-B-F8NS-ANB  
Type: Forward Recovery Test System  
S.N.: 12179  
Date: December 15, 2008

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.

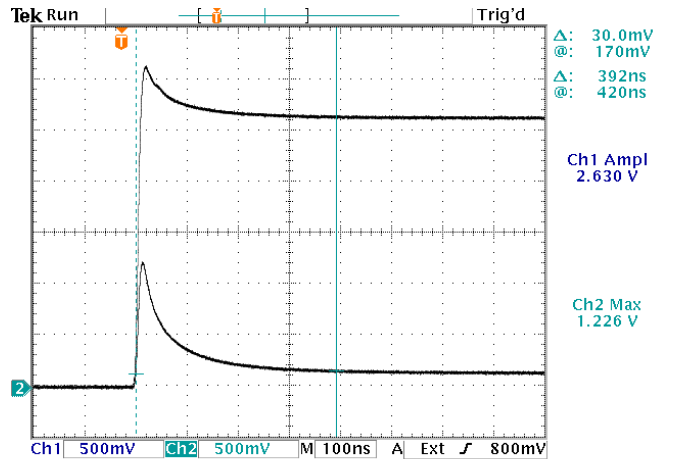
Light blue: Main output ( $V_{DUT}/10$ ). 50 mV/div, 10 ns/div.

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.

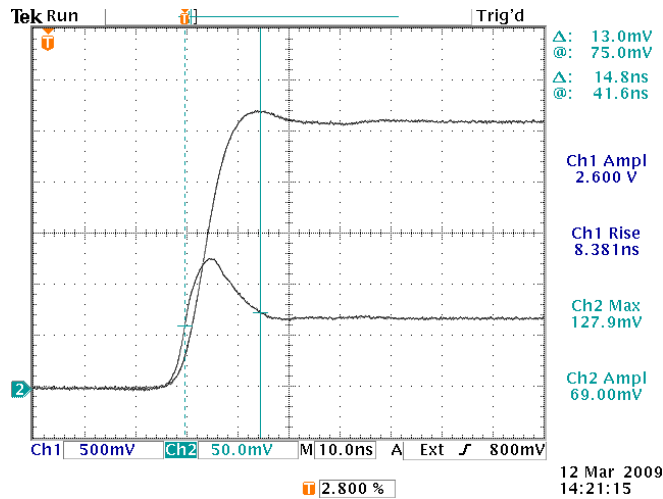
Light blue: Main output ( $V_{DUT}/10$ ). 500 mV/div, 100 ns/div.

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.

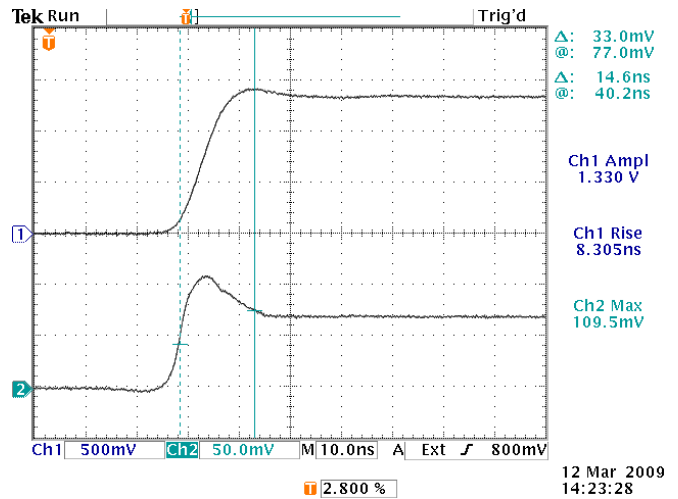
Light blue: Main output ( $V_{DUT}/10$ ). 50 mV/div, 10 ns/div.

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.