Model: AVR-EBF6-B-ANB-F8NS
Output Amplitude: 100 mA to 1 A

Type: Forward Recovery Test System
Pulse Width (FWHM): 200 ns to 10 us

S.N.: 12133
Rise Time (10%-90%): 8 or 10 ns, depending on the filter used

Date: December 15, 2008
PRF: 1 Hz - 100 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} = 1.97V, and t_{FR} = 14.6 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). 200 mV/div, 100 ns/div.

Shows V_{FM} = 7.58V, and t_{FR} = 410 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 ($V_{\text{IN}}/10$, +25.8V, with ~ 8 ns rise time). 500 mV/div, 10 ns/div.

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

Shows $V_{\text{FM}} = 1.25V$, and $t_{\text{FR}} = 13.6$ ns for $I_{\text{F}} = 500$ mA, using the recovery point 10% above steady state.

The MIL-PRF-19500/477H specification calls for $V_{\text{FM}} < 2.2V$ and $t_{\text{FR}} < 15$ 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 ($V_{\text{IN}}/10$, +13.2V, with ~ 8 ns rise time). 500 mV/div, 10 ns/div.

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

Shows $V_{\text{FM}} = 1.12V$, and $t_{\text{FR}} = 14.0$ ns for $I_{\text{F}} = 500$ mA, using the recovery point 10% above steady state.

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

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