PERFORMANCE CHECKSHEET

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

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.
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 ($V_{\text{DUT}}/10$). 20 mV/div, 10 ns/div.

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

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