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NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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PERFORMANCE CHECKSHEET

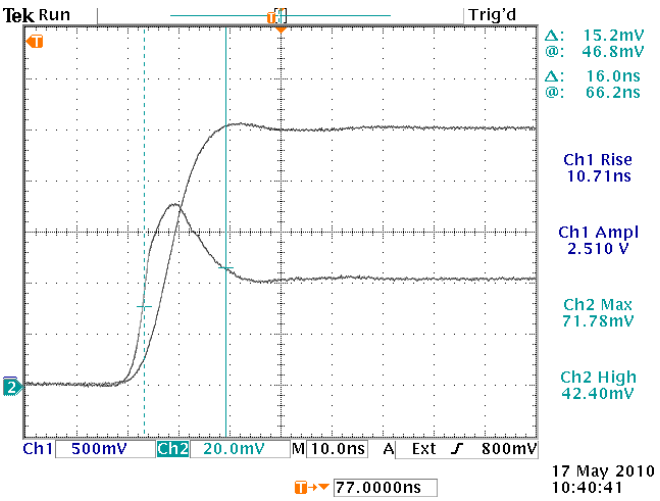
Model: AVR-EBF6-B-F20NS
Type: Forward Recovery Test System
S.N.: 12433
Date: May 20, 2010

Basic specifications: →

Output Amplitude: 100 mA to 1 A
Pulse Width (FWHM): 200 ns to 10 us
Rise Time (10%-90%): 10 ns or 20 ns (depends on filter used)
PRF: 1 Hz - 100 Hz
Jitter, Stability: OK
Prime Power: 100-240V AC, 50-60 Hz.

Test Waveforms

1N5819 waveform, 10 ns filter



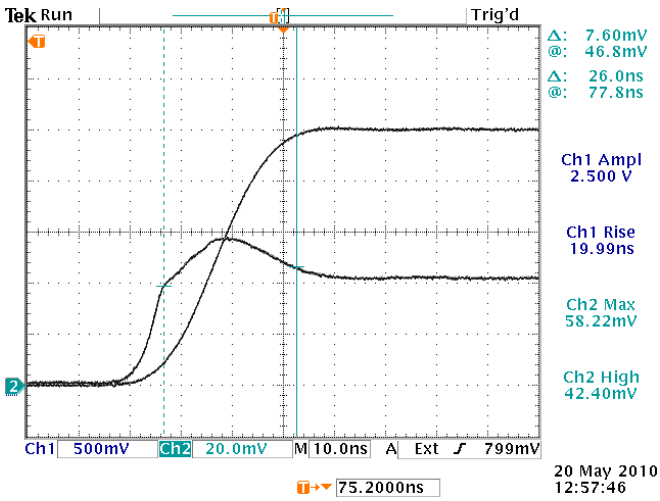
Step waveform: MON output (V_{IN}/10, +25.5V, with ~10 ns rise time). 500 mV/div, 10 ns/div.

Peaked waveform: Main output (V_{DUT}/10).
20 mV/div, 10 ns/div.

Shows V_{FM} = 0.7178V, and t_{FR} = 16.0 ns for I_F = 500 mA, using the recovery point 10% above steady state.

Tested using the supplied AVX-TFR-MIX test jig and the standard AVX-FILT-10NS filter.

1N5819 waveform, 20 ns filter



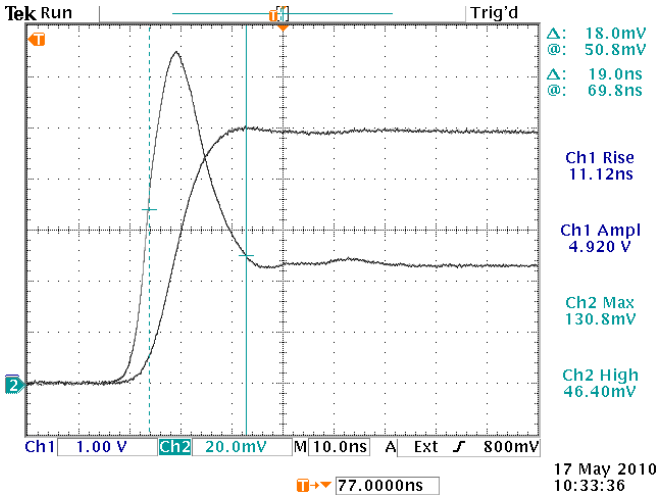
Step waveform: MON output (V_{IN}/10, +25.5V, with ~20 ns rise time). 500 mV/div, 10 ns/div.

Peaked waveform: Main output (V_{DUT}/10).
20 mV/div, 10 ns/div.

Shows V_{FM} = 0.5822V, and t_{FR} = 26.0 ns for I_F = 500 mA, using the recovery point 10% above steady state.

Tested using the supplied AVX-TFR-MIX test jig and the standard AVX-FILT-20NS filter.

PMEG3020DEP115 waveform, 10 ns filter



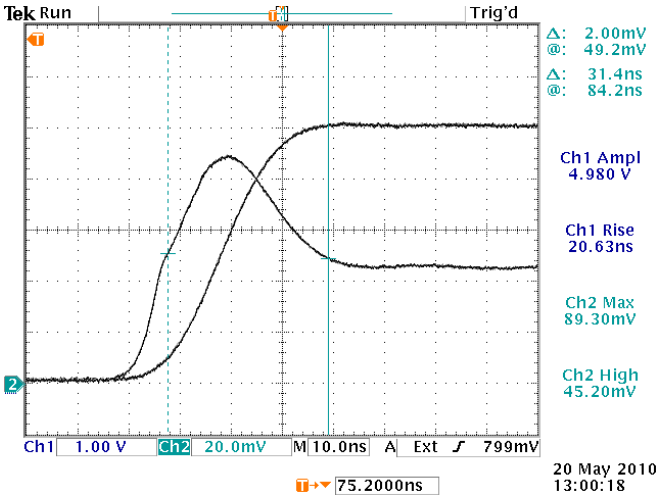
Step waveform: MON output (V_{IN}/10, +50V, with ~10 ns rise time). 1V/div, 10 ns/div.

Peaked waveform: Main output (V_{DUT}/10).
20 mV/div, 10 ns/div.

Shows V_{FM} = 1.308V, and t_{FR} = 19.0 ns for I_F = 1A, using the recovery point 10% above steady state.

Tested using the supplied AVX-TFR-MELF-NXPA test jig and the standard AVX-FILT-10NS filter.

PMEG3020DEP115 waveform, 20 ns filter



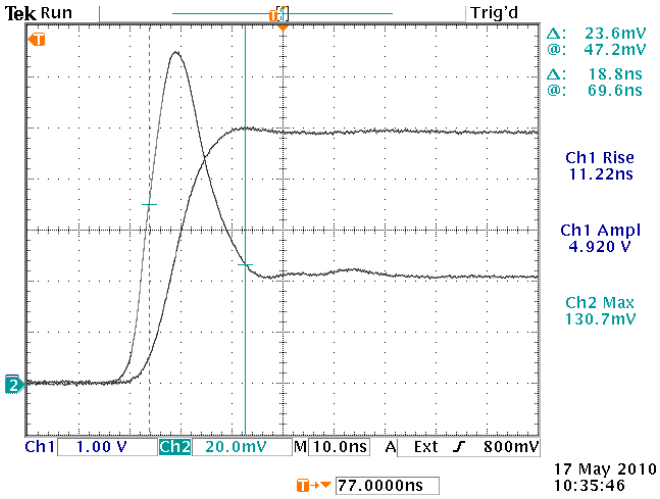
Step waveform: MON output (V_{IN}/10, +50V, with ~20 ns rise time). 1V/div, 10 ns/div.

Peaked waveform: Main output (V_{DUT}/10).
20 mV/div, 10 ns/div.

Shows V_{FM} = 0.893V, and t_{FR} = 31.4 ns for I_F = 1A, using the recovery point 10% above steady state.

Tested using the supplied AVX-TFR-MELF-NXPA test jig and the standard AVX-FILT-20NS filter.

PMEG2020DEP115 waveform, 10 ns filter



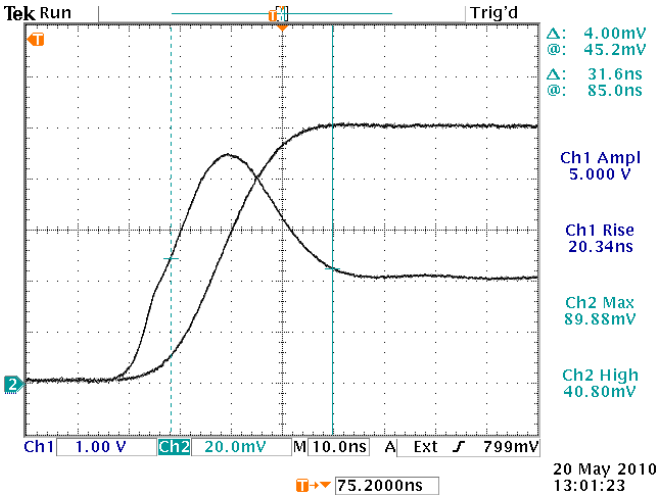
Step waveform: MON output (V_{IN}/10, +50V, with ~10 ns rise time). 1V/div, 10 ns/div.

Peaked waveform: Main output (V_{DUT}/10).
20 mV/div, 10 ns/div.

Shows V_{FM} = 1.307V, and t_{FR} = 18.8 ns for I_F = 1A, using the recovery point 10% above steady state.

Tested using the supplied AVX-TFR-MELF-NXPA test jig and the standard AVX-FILT-10NS filter.

PMEG2020DEP115 waveform, 20 ns filter



Step waveform: MON output (V_{IN}/10, +50V, with ~20 ns rise time). 1V/div, 10 ns/div.

Peaked waveform: Main output (V_{DUT}/10).
20 mV/div, 10 ns/div.

Shows V_{FM} = 0.8988V, and t_{FR} = 31.6 ns for I_F = 1A, using the recovery point 10% above steady state.

Tested using the supplied AVX-TFR-MELF-NXPA test jig and the standard AVX-FILT-20NS filter.

Note: All sample DUTs were ordered through distributors, and were not provided by the customer.