PERFORMANCE CHECKSHEET

Model: AVR-EBF6-B-F20NS  Output Amplitude: 100 mA to 1 A
Type: Forward Recovery Test System  Pulse Width (FWHM): 200 ns to 10 us
S.N.: 12433  Rise Time (10%-90%): 10 ns or 20 ns (depends on filter used)
Date: May 20, 2010  PRF: 1 Hz - 100 Hz

Basic specifications:

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\textsubscript{IN}/10, +50V, with ~10 ns rise time). 1V/div, 10 ns/div.

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

Shows V\textsubscript{FM} = 1.308V, and t\textsubscript{FR} = 19.0 ns for I\textsubscript{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\textsubscript{IN}/10, +50V, with ~20 ns rise time). 1V/div, 10 ns/div.

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

Shows V\textsubscript{FM} = 0.893V, and t\textsubscript{FR} = 31.4 ns for I\textsubscript{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 $I_F = 1$A, 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 $I_F = 1$A, 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.