PERFORMANCE CHECKSHEET

Model: AVR-DV1-B-FTR-AC02
Type: High-Voltage Phototriac dV/dt Test System
S.N.: 13779
Date: September 26, 2018

Minimum Rise Time Test

- +400V, +600V, +800V, +1kV, at minimum rise time. 500 V/div, 200 ns/div. No DUT.
- DUT = Fairchild MOC3052M. Fastest dV/dt without voltage collapse at 400V is 0.632 × 400V / 111.4 ns = 2269 V/us.

- a) Output Signal Amplitude: 0 to ±1000V
- b) Pulse Width (FWHM): 200 ns - 200 us
- c) Rise, fall times (1%-63.2%):
  - < 16.8 ns at 400V
  - < 19 ns at 600V
  - < 22 ns at 800V
  - < 25 ns at 1000V

- d) PRF: 1 Hz – 1 kHz
- e) Jitter, Stability: OK
- f) Prime Power: 100-240V AC, 50-60 Hz.

+400V Test, Different Rise Times

1 us Rise Time Test, Different Amplitudes

- DUT = Fairchild MOC3052M. The highest amplitude for T ≈ 1 us without voltage collapse is 552V, giving 0.632 × 552V / 1.048 us = 333 V/us.