

info@avtechpulse.com
http://www.avtechpulse.com/

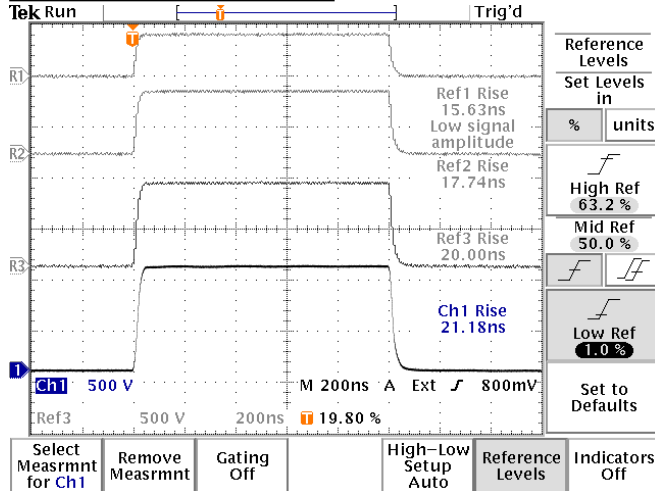
Tel: 888-670-8729 (USA & Canada)
or +1-613-686-6675 (Worldwide)

BOX 5120, LCD MERIVALE
OTTAWA, CANADA K2C3H5

PERFORMANCE CHECKSHEET

Model: AVR-DV1-B-FTR-AC22
Type: High-Voltage Phototriac dV/dt Test System
S.N.: 14314
Date: February 22, 2023

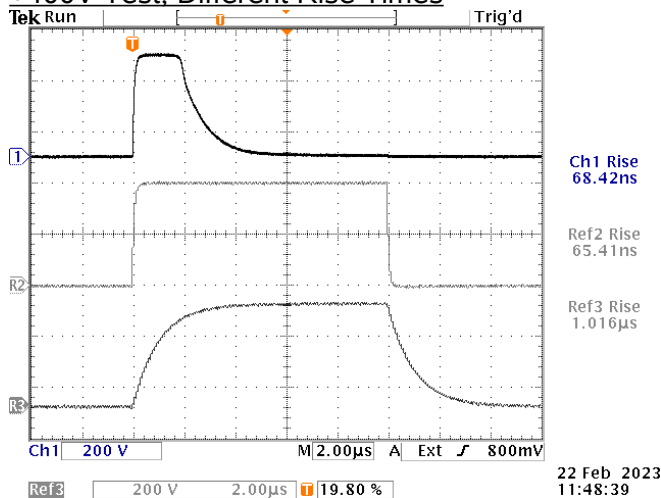
Minimum Rise Time Test



- 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.

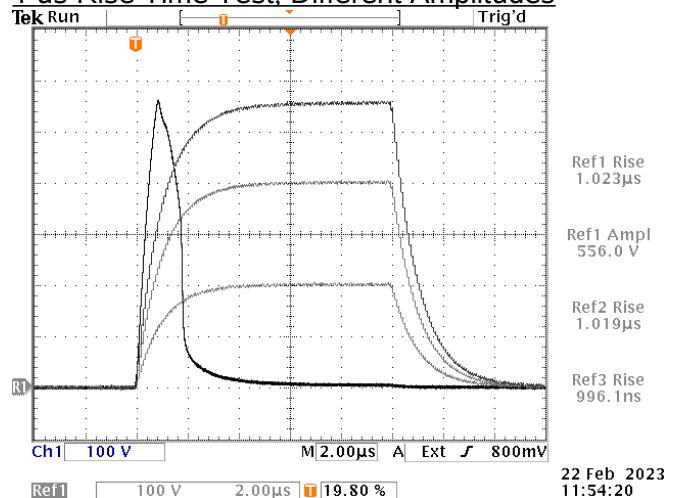
+400V, +600V, +800V, +1kV, at minimum rise time. 500 V/div, 200 ns/div. No DUT.

+400V Test, Different Rise Times



DUT = Fairchild MOC3052M. Fastest dV/dt without voltage collapse at 400V is $0.632 \times 400V / 65.41 \text{ ns} = 3864 \text{ V/us}$.

1 us Rise Time Test, Different Amplitudes



DUT = Fairchild MOC3052M. The highest amplitude for $T \approx 1 \text{ us}$ without voltage collapse is 556V, giving $0.632 \times 556V / 0.9995 \text{ us} = 343 \text{ V/us}$.