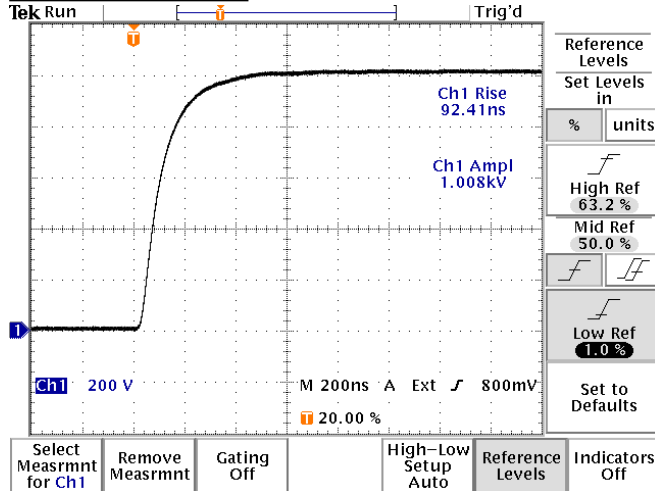


PERFORMANCE CHECKSHEET

Model: AVR-DV1-B-AC03  
Type: High-Voltage Phototriac dV/dt Test System  
S.N.: 14343  
Date: May 16, 2023

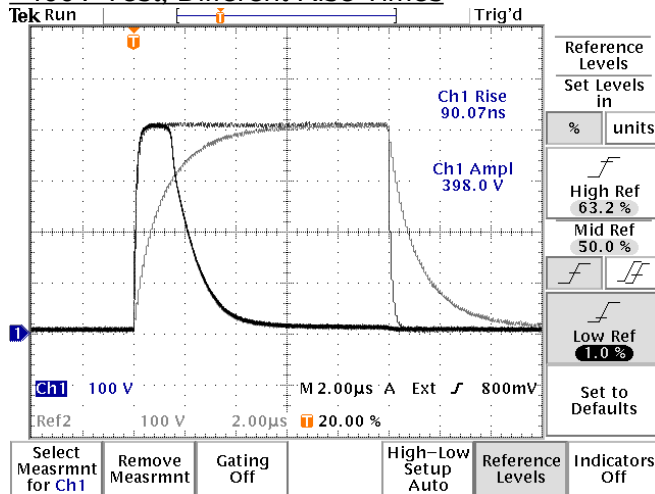
Fastest dV/dt Test



- a) Output Signal Amplitude: up to ±1000V
- b) Pulse Width (FWHM): 200 ns - 200 us
- c) Rise, fall times (1%-63.2%): < 125 ns
- d) PRF: 1 Hz – 1 kHz
- e) Jitter, Stability: OK
- f) Prime Power: 100-240V AC, 50-60 Hz.

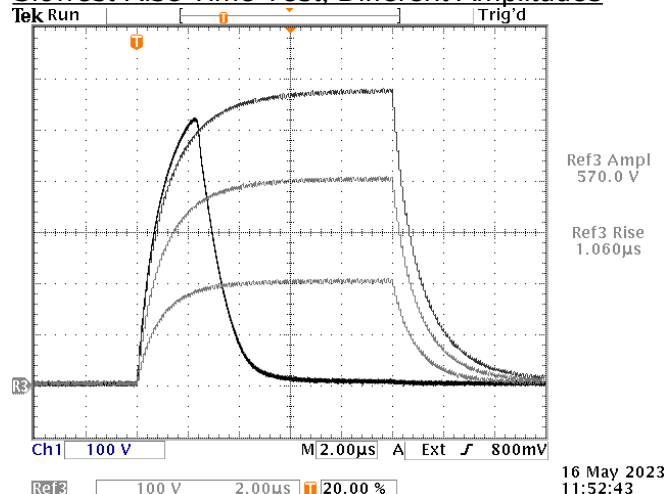
+1 kV pulse, with “T” control at minimum. 200 V/div, 200 ns/div. 10 Hz, 10 us PW. No DUT.

+400V Test, Different Rise Times



DUT = Fairchild MOC3052M  
Fastest dV/dt without voltage collapse at 400V is  
 $0.632 \times 400V / 132.2 \text{ ns} = 1912 \text{ V/us}$ .

Slowest Rise Time Test, Different Amplitudes



DUT = Fairchild MOC3052M. The highest amplitude for  $T \approx 1 \text{ us}$  without voltage collapse is 570V, giving  $0.632 \times 568V / 1.060 \text{ us} = 340 \text{ V/us}$ .