PERFORMANCE CHECKSHEET

Model: AVR-DV1-B
Type: High-Voltage Phototriac dV/dt Test System
S.N.: 13531
Date: December 19, 2016

Fastest dV/dt Test

+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 x 400V / 132.2 ns = 1912 V/us.

Slowest Rise Time Test, Different Amplitudes

DUT = Fairchild MOC3052M
The highest amplitude at the slowest T setting without voltage collapse is 568V, giving 0.632 x 568V / 1.116 us = 321.7 V/us.

a) Output Signal Amplitude: 0 to ±1000V
b) Pulse Width (FWHM): 200 ns - 200 us
c) Rise Time (20%-80%): < 100 ns at mainframe OUT
d) Fall Time (80%-20%): < 100 ns at mainframe OUT
e) PRF: 1 Hz – 1 kHz
f) Jitter, Stability: OK
g) Prime Power: 100-240V AC, 50-60 Hz.