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PERFORMANCE CHECKSHEET

Model: AVR-EB4-B-AC03-SMA-AR1-VXI-X2
Type: Semiconductor Device Tester
S.N.: 13290
Date: May 14, 2015

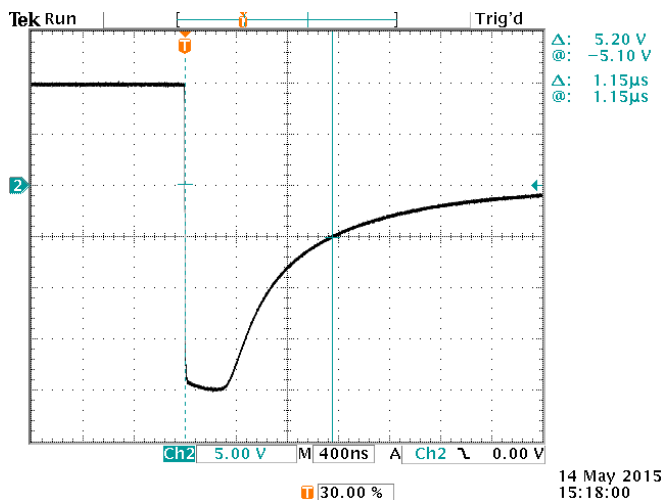
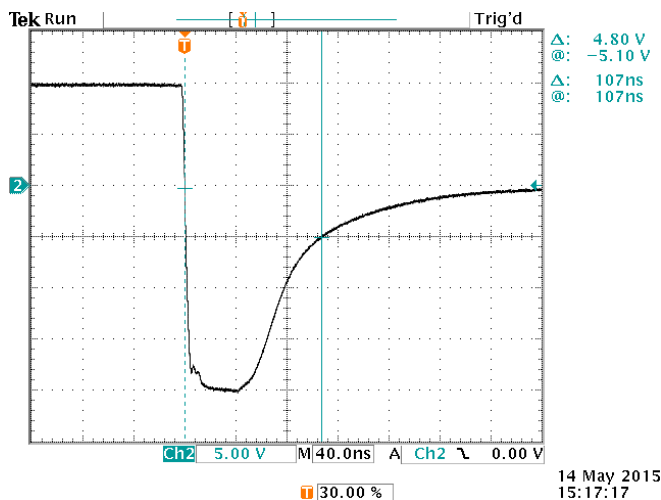
Output Amplitude: to +2A, -4A
Pulse Width (FWHM): 2 – 20 us
Switching Time,
+ to -, 10%-90%: ≤ 4.5 ns
PRF: 1 - 100 Hz
Jitter, Stability: OK
Prime Power: 100-240V AC, 50-60 Hz.

Basic specifications: →

Test Waveforms

With an On Semi 1N4937 (date code 1338) installed in the AVX-TRR-AR1 test jig, connected using the 60 cm / 24" coaxial cable:

With a generic 1N4004 installed in the AVX-TRR-AR1 test jig, connected using the 60 cm / 24" coaxial cable:



$I_F = +2A, I_R = -4A, I_{RR} = -1A.$

$I_F = +2A, I_R = -4A, I_{RR} = -1A.$

100 Hz, 20 us PW.

100 Hz, 20 us PW.

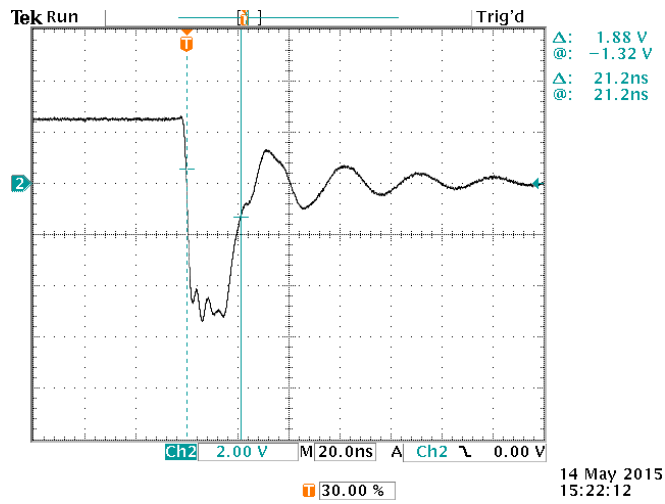
5V (1A) / div, 40 ns/div.

5V (1A) / div, 400 ns/div.

Measured $t_{RR} = 107$ ns.

Measured $t_{RR} = 1.15$ us.

With a Microsemi MQ1N5811US installed in the AVX-TRR-AR1 test jig, connected using the 60 cm / 24" coaxial cable:



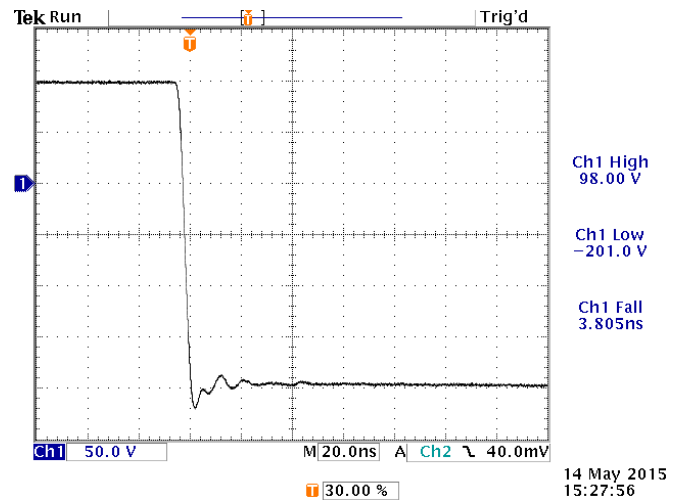
$I_F = +0.5A$, $I_R = -1A$, $I_{RR} = -0.25A$.

100 Hz, 20 us PW.

2V (0.4A) / div, 20 ns/div.

Measured $t_{RR} = 21.2$ ns.

Mainframe output, with a zero Ohm jumper installed in the AVX-TRR-AR1 test jig:



50 V / div, 20 ns/div. +100V, -200V.

90% - 10% fall time shown.