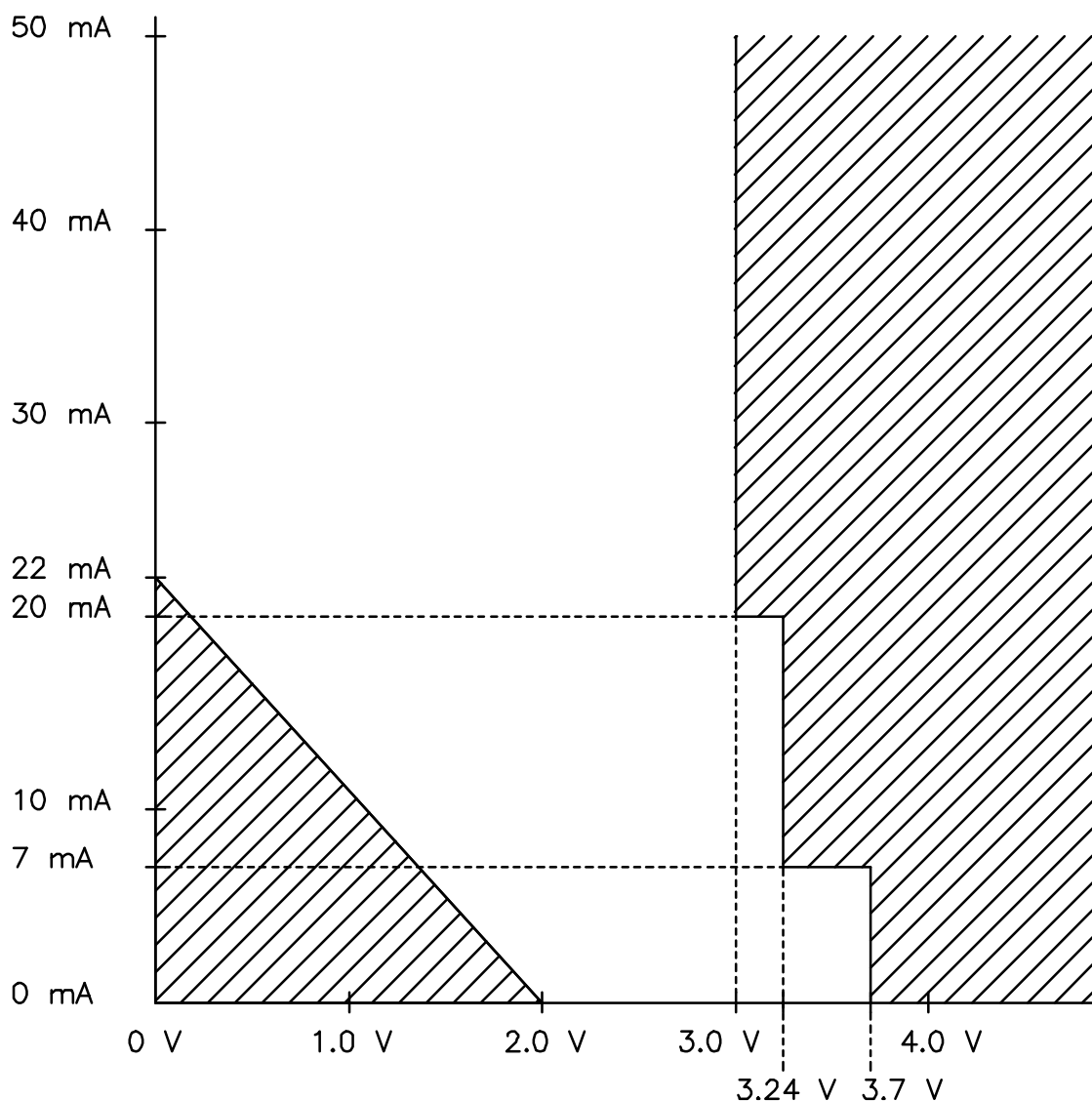




### 6.1.2 Single-ended output characteristics

Single-ended signals shall use active-negation drivers. Active-negation drivers have three states: asserted, negated, and high-impedance. Each signal sourced by an SCSI device shall have the following output characteristics when measured at the SCSI device's connector:

- a) VOL (low-level output voltage) = 0,0 to 0,5 V d.c. at IOL = 48 mA (signal asserted);
- b) VOH (high-level output voltage) = 2,5 to 3,7 V d.c. (signal negated);
- c) The output sourcing characteristics (signal negated) shall be constrained to operate in the non-shaded areas of figure 1.



**Figure 1 -- Active Negation Current vs. Voltage**

All single-ended drivers shall maintain the high-impedance state during power-on and power-off cycles.

SCSI devices should meet the following specifications for all signals when measured on the test circuit shown in figure 2 with a load capacitor ( $C_L$ ) of 15 pF  $\pm$  5%:

- a) trise (rise rate) = 520 mv per ns maximum (0,7 V d.c. to 2,3 V d.c.);
- b) tfall (fall rate) = 520 mv per ns maximum (2,3 V d.c. to 0,7 V d.c.).

All other output timing specifications shall be measured with the test circuit shown in figure 2 with a load capacitor ( $C_L$ ) of 200 pF  $\pm$  5%.

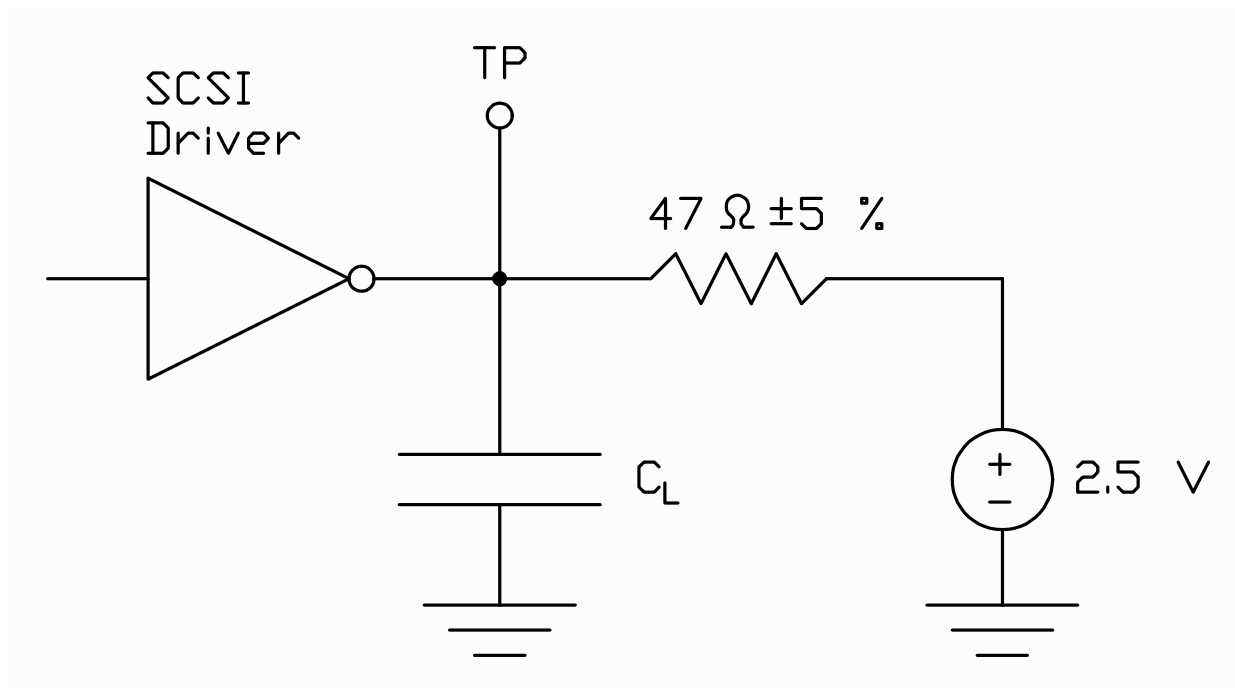


Figure 2 - Single-ended test circuit