SPI-3 Single-Ended Current

- **SCSI-2**
  - Each terminator can source 22.4 mA @ 0.5V +

- **SPI**
  - Each terminator can source 24 mA @ 0.2V +

- **SPI-2/ SPI-3**
  - Each terminator can source 25.4 mA @ 0.2V to 0.5V
  - 22.4 mA @ 0.5V +

- **SPI terminators can source 24 mA @ 0.5V**
Single-Ended Current

SPI compliant terminator
not SPI-3 compliant
Driver current/leakage

- Driver current not to exceed 48 mA at 0.5 volts.
  \[(22.4 \text{ mA})(2 \text{ terminators}) + (0.4 \text{ mA leakage})(8 \text{ devices}) = 44.8 \text{ mA} + 3.2 \text{ mA} = 48 \text{ mA}.

- SPI-2 working group allowed Fast-5 devices to have the higher leakage current of SCSI-2, allowing for older bipolar devices to be used on the SCSI bus.

- Do we need to support 8 old leaky devices in SPI-3?
Proposed change to 7.1.1

b) each terminator shall source current to the signal line whenever its terminal voltage is below 2,5 V D.C. and this current shall not exceed 24,0 mA for any line voltage above 0,5 V D.C and 25,4 mA for any line voltage between 0,5 V D.C. and 0,2 V D.C. even when all other signal lines are driven at 4.0 V D.C.;