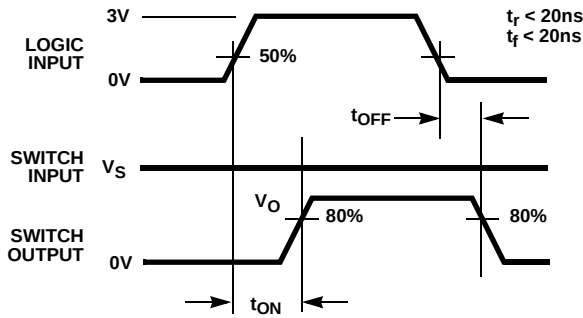


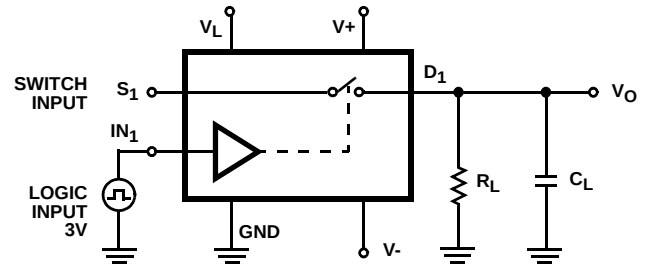
Test Circuits and Waveforms

V_O is the steady state output with the switch on. Feedthrough via switch capacitance may result in spikes at the leading and trailing edge of the output waveform.



NOTE: Logic input waveform is inverted for switches that have the opposite logic sense.

FIGURE 1A. MEASUREMENT POINTS



Repeat test for Channels 2, 3 and 4.
For load conditions, see Specifications. C_L includes fixture and stray capacitance.

$$V_O = V_S \frac{R_L}{R_L + r_{DS(ON)}}$$

FIGURE 1B. TEST CIRCUIT

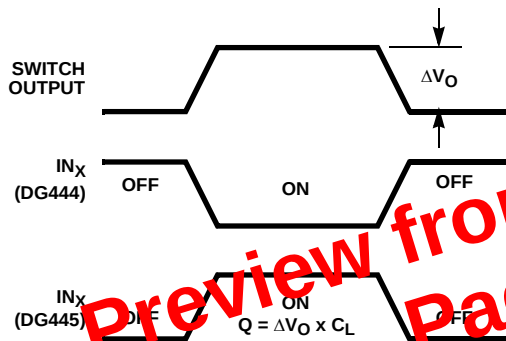


FIGURE 2A. MEASUREMENT POINTS

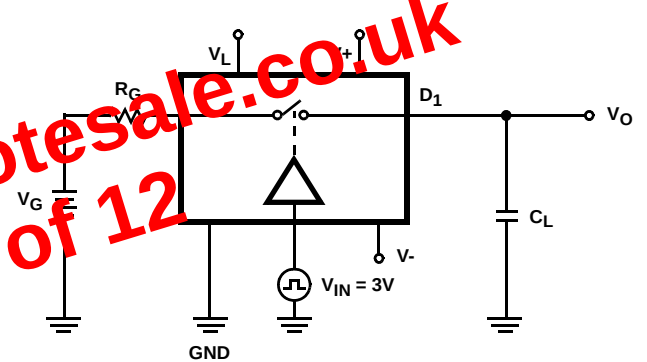


FIGURE 2B. TEST CIRCUIT

FIGURE 1. SWITCHING TIMES

FIGURE 2. CHARGE INJECTION

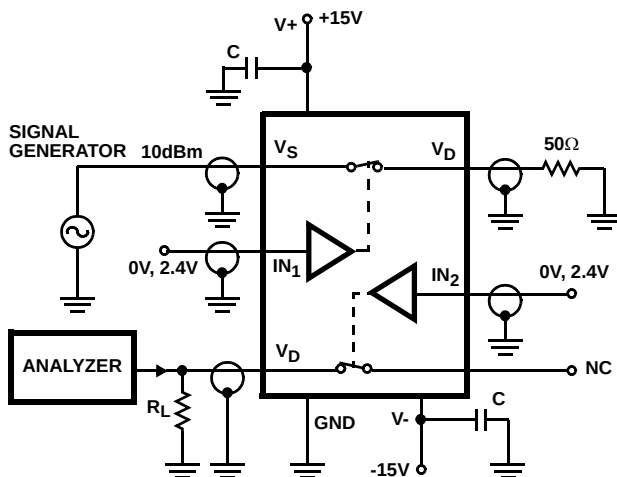


FIGURE 3. CROSSTALK TEST CIRCUIT

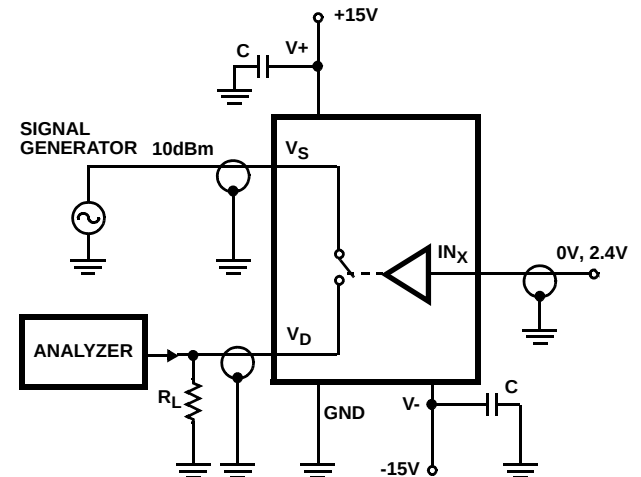


FIGURE 4. OFF ISOLATION TEST CIRCUIT

Typical Performance Curves (Continued)

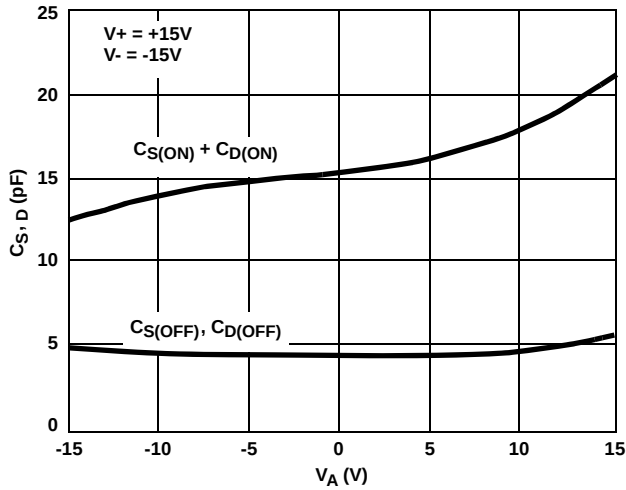


FIGURE 14. SOURCE/DRAIN CAPACITANCE vs ANALOG VOLTAGE

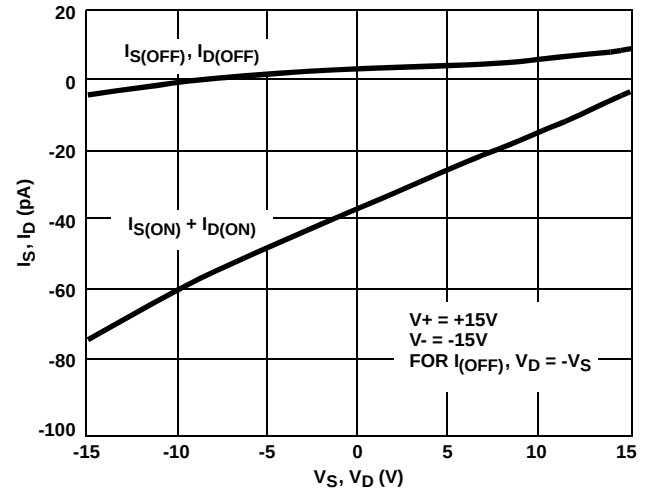


FIGURE 15. LEAKAGE CURRENTS vs ANALOG VOLTAGE

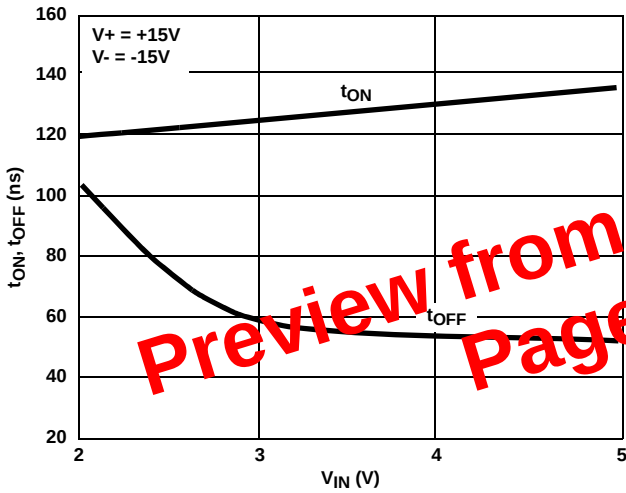


FIGURE 16. SWITCHING TIME vs INPUT VOLTAGE (DG444)

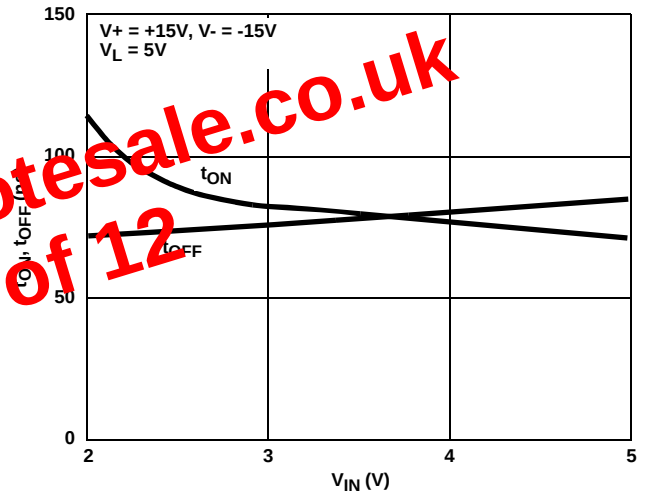


FIGURE 17. SWITCHING TIME vs INPUT VOLTAGE (DG445)

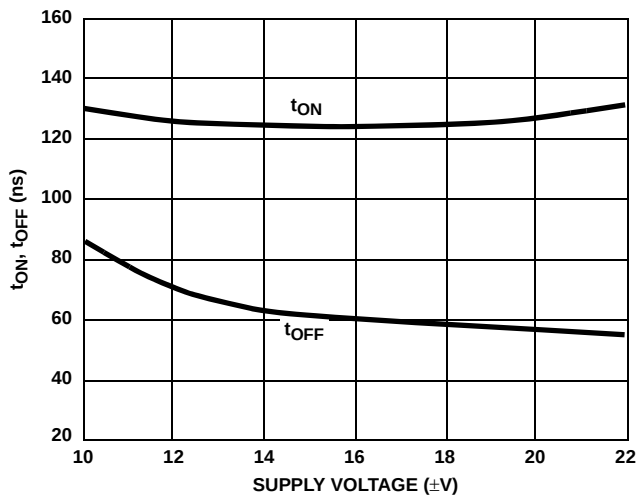


FIGURE 18. SWITCHING TIME vs POWER SUPPLY VOLTAGE (DG444)

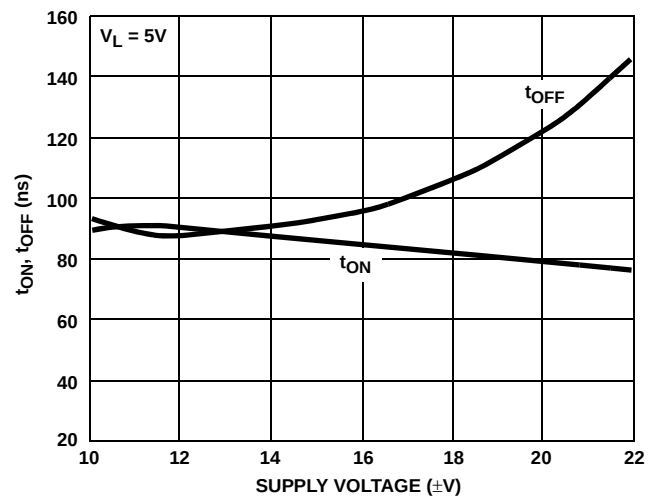


FIGURE 19. SWITCHING TIME vs POWER SUPPLY VOLTAGE (DG445)