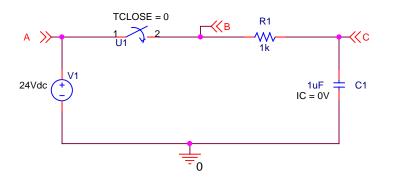
EGR 260 Circuit Analysis File: RCSwitch.opj

5

5

Transient Analysis of an RC Circuit (using a switch)

Purpose: To graph the source, resistor, and capacitor voltages until they reach steady state Analysis type: Transient. The final time will equal 5Tau = 5RC = 5(1k)(1uF) = 5 ms.



OFFPAGE symbols were added and labeled A, B, and C. Note that the source voltage is V(A), the resistor voltage is V(B,C), and the capacitor voltage is V(C).

An opening switch (Sw_tOpen) and a closing switch (Sw_tClose) can be found in the EVAL library.

Note that initial conditions (IC) can be added to a capacitor or an inductor. See instructions below for displaying the IC attributes.

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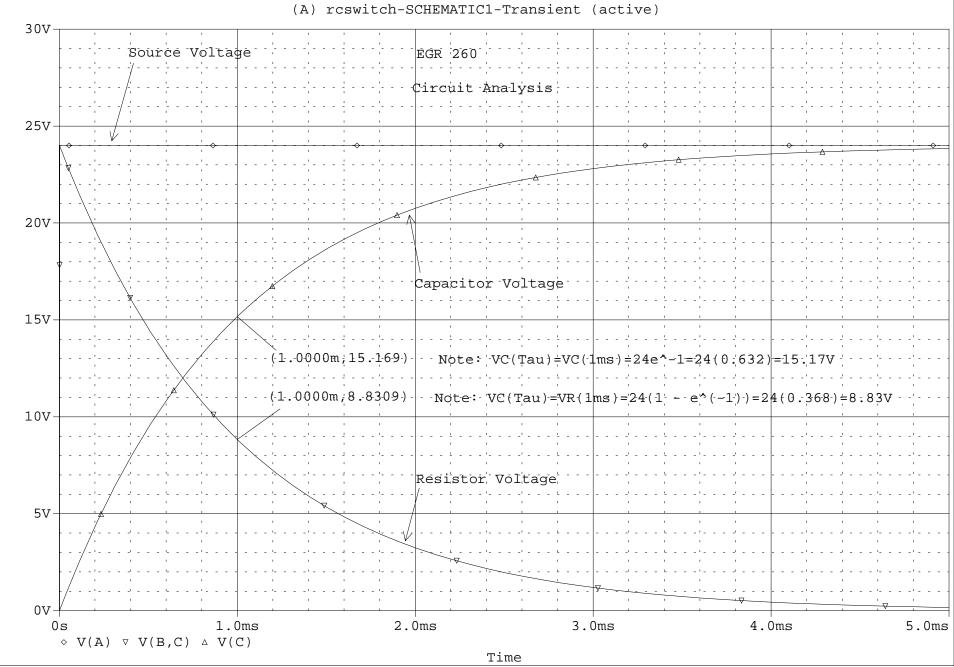
Edit attributes of parts as follows: 1) If the attribute appears next to the part, double click it and then change its value 2) If the attribute does not appear next to the part, double click on the part, find the desired attribute, right click on it and select DISPLAY. Then indicate what Display Format is desired. Once the attribute has been displayed, double-click on it and change the value.

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** circuit file for profile: Transient

Date/Time run: 01/29 16:33:23

Temperature: 27.0



Date: January 29

Simulation Settings - Transient	×								
General Analysis Include Files	Libraries Stimulus Options Data Collection Probe Window								
Analysis type: Time Domain (Transient) ▼ Options: General Settings Monte Carlo/Worst Case Parametric Sweep Temperature (Sweep) Save Bias Point Load Bias Point	Bun to time: 5ms seconds (TSTOP) Start saving data after: 0 seconds Iransient options								
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