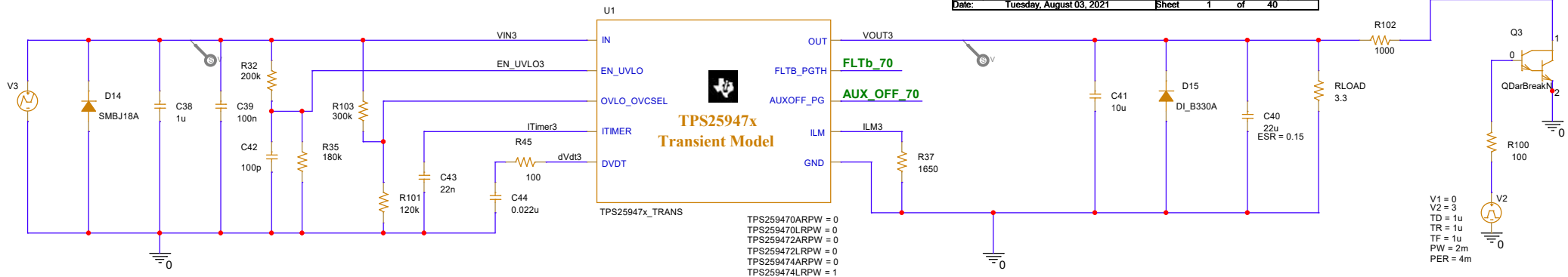
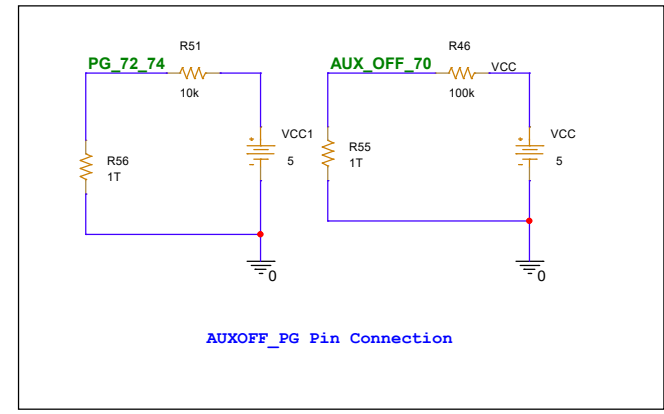
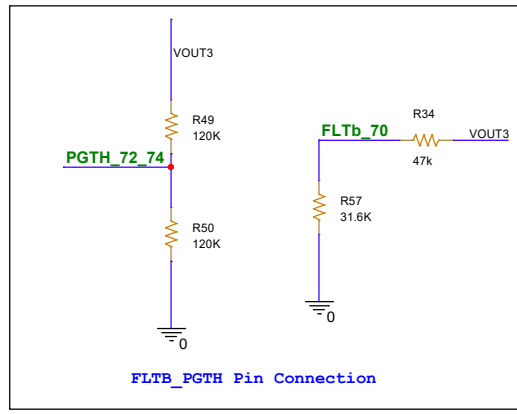
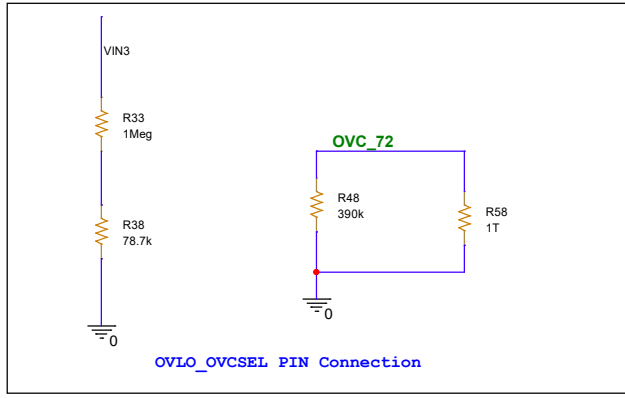


TPS25947x STARTUP SIMULATION

Title: TPS25947x: 2.7 - 23 V, 5.5 A, 28 mΩ True Reverse Current Blocking eFuse with Input Reverse Polarity Protection		
Size: A3	Document Number: TPS25947x_TRANS	Rev: 1
Date: Tuesday, August 03, 2021		Sheet 1 of 40



V1 = 0
 V2 = 3
 TD = 1u
 TR = 1u
 TF = 1u
 PW = 2m
 PER = 4m



Application Notes:

- The TPS25947x model is encrypted and will only run in PSPICE Versions 17.2 and up.
- The testbench has been configured Vin = 12V and Iout = 1A.
- One among the 6 variants are selected by using the parameters
 TPS259470LRPW=1--> TPS259470LRPW device is selected
 TPS259470ARPW=1--> TPS259470ARPW device is selected
 TPS259472LRPW=1--> TPS259472LRPW device is selected
 TPS259472ARPW=1--> TPS259472ARPW device is selected
 TPS259474LRPW=1--> TPS259474LRPW device is selected
 TPS259474ARPW=1--> TPS259474ARPW device is selected
- To select a particular variant set that parameter to 1 and rest to 0.
- If TPS259470x is selected, connect
 OVLO_70_74 --> OVLO pin
 FLT_70 --> FLTb_PGTH pin
 AUX_OFF_70 --> AUXOFF_PG pin
 If TPS259472x is selected, connect
 OVC_72 --> OVCSEL pin
 PGTH_72_74 --> FLTb_PGTH pin
 PG_72_74 --> AUXOFF_PG pin
 If TPS259474x is selected, connect
 OVLO_70_74 --> OVLO pin
 PGTH_72_74 --> FLTb_PGTH pin
 PG_72_74 --> AUXOFF_PG pin
- Temperature dependent characteristics are not modelled.
 Thermal Shutdown Delay vs Power Dissipation is modelled such that temperature is not taken into account.
- The simulation runs for 70m and takes approximately 10 minutes to run on a 4 core 2.8GHz machine.