

Instructions for Using Bourns TBU Library Data Files with LTspice

Bourns provides TBU-CA library data files for use with LTspice. There is one library data file for each component with different parameters. These library files model the behavior of TBUs as specified on the data sheet.

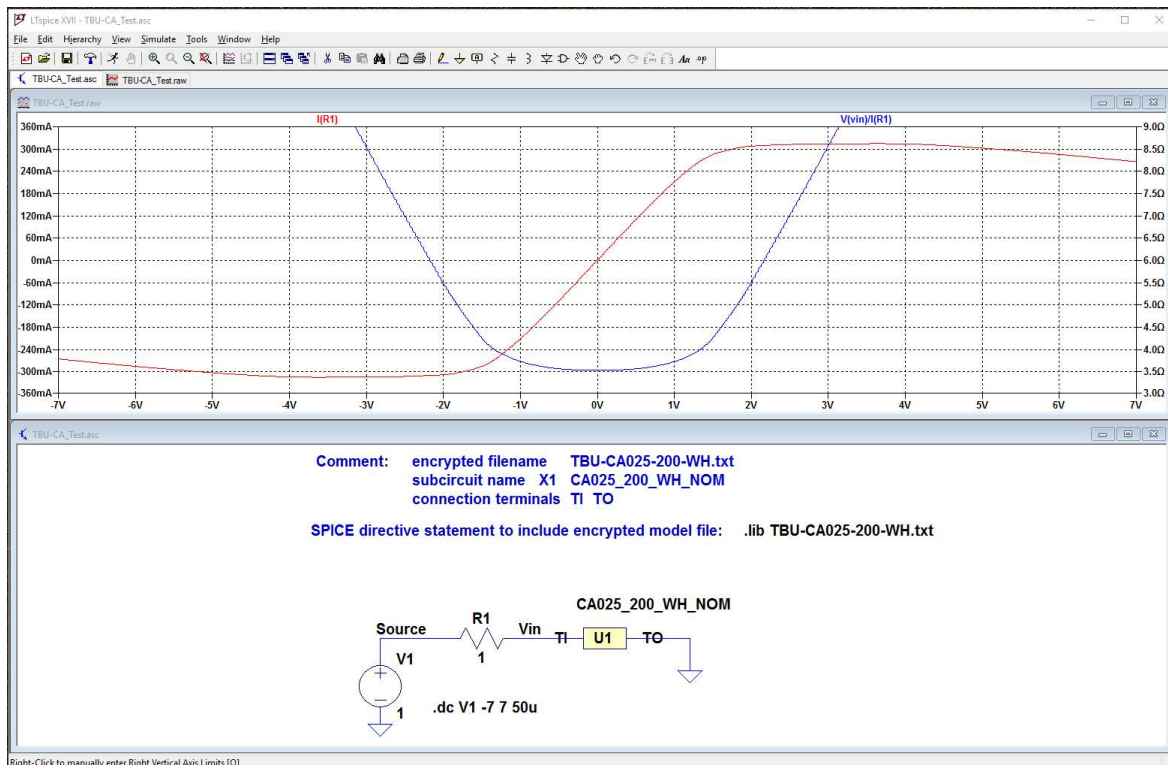
TBU Library Symbol

A 2-external node TBU Library Symbol must be used to enter the subcircuit into a schematic. The user may use or modify an existing symbol or draw a new one. At the Symbol Attribute Editor window, enter “X” into the prefix field to indicate that the symbol represents a subcircuit. At the Pin/Port Property window, assign two netlist nodes. For your convenience, the Bourns Library Model circuit symbol file “TBU-CA_Symbol.asy” is available for download. See the schematic “TBU-CA_Symbol.asc” for a sample simulation.

How to Use Bourns TBU Library Data

Download the TBU library data files at www.bourns.com from the TBU Product Page – Design Files column.

Place the TBU Model Symbol and connect it to your circuit. Right click the component to bring up the Component Attribute Editor, place the TBU subcircuit name into the Spice model field. Include the named library file using the .Include SPICE directive `.inc <directory> \ <filename>`. `<directory>` is the path where the named file is located. SPICE directives are added by clicking on the “.op” button on the toolbar, or typing “s” in the schematic viewer.



Library Data Filename**Subcircuit name**

TBU-CA025-050-WH.txt	CA025_050_WH_NOM
TBU-CA025-100-WH.txt	CA025_100_WH_NOM
TBU-CA025-200-WH.txt	CA025_200_WH_NOM
TBU-CA025-300-WH.txt	CA025_300_WH_NOM
TBU-CA025-500-WH.txt	CA025_500_WH_NOM
TBU-CA040-050-WH.txt	CA040_050_WH_NOM
TBU-CA040-100-WH.txt	CA040_100_WH_NOM
TBU-CA040-200-WH.txt	CA040_200_WH_NOM
TBU-CA040-300-WH.txt	CA040_300_WH_NOM
TBU-CA040-500-WH.txt	CA040_500_WH_NOM
TBU-CA050-050-WH.txt	CA050_050_WH_NOM
TBU-CA050-100-WH.txt	CA050_100_WH_NOM
TBU-CA050-200-WH.txt	CA050_200_WH_NOM
TBU-CA050-300-WH.txt	CA050_300_WH_NOM
TBU-CA050-500-WH.txt	CA050_500_WH_NOM
TBU-CA065-050-WH.txt	CA065_050_WH_NOM
TBU-CA065-100-WH.txt	CA065_100_WH_NOM
TBU-CA065-200-WH.txt	CA065_200_WH_NOM
TBU-CA065-300-WH.txt	CA065_300_WH_NOM
TBU-CA065-500-WH.txt	CA065_500_WH_NOM
TBU-CA085-050-WH.txt	CA085_050_WH_NOM
TBU-CA085-100-WH.txt	CA085_100_WH_NOM
TBU-CA085-200-WH.txt	CA085_200_WH_NOM
TBU-CA085-300-WH.txt	CA085_300_WH_NOM
TBU-CA085-500-WH.txt	CA085_500_WH_NOM