

## Instructions for Using Bourns TBU Library Data Files with PSPICE

Bourns provides TBU-CA library data files for use with PSPICE. 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.

### How to Use Bourns TBU Library Data

Download the TBU library data files at [www.bourns.com](http://www.bourns.com) from the TBU Product Page – Design Files column.

Use TOOLS – GENERATE PART to import the TBU part library into PSPICE. You must add the path to the library file \*.lib and the generated part \*.olb in the appropriate places.

\* PSPICE Encrypted File

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\* This encrypted file has been supplied by a 3<sup>rd</sup> party vendor that does not wish to publicize the technology used to implement this library.

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\* Permission is granted to use this file for simulations but not to reverse engineer its contents.

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\* This is a PSPICE model for a nominal TBU-CA025-100-WH

\* The properties of this device are as follows:

\* Itrip = 150mA

\* R = 7.3ohms

\* Vreset = 16V

\* Max Voltage = 250V (breaks down at about 260V)

\* Quiescent current @50V = 600uA

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\*\* While extensive analysis has been carried out to provide a Spice model that \*\*  
\*\* is representative of the physical device, the performance of this model does \*\*  
\*\* not guarantee the performance of the actual device. \*\*  
\*\* All modelled results should be confirmed with bench measurements. \*\*

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