Annotation Library
1.0

Features

- The library provides documentation for annotation components.

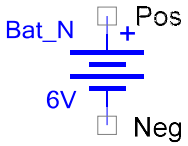
General Description

The Annotation Component library provides a way for you to mix external and internal components on the same schematic. This makes it possible to improve documentation and better understand the internal schematic and entire design. The components in this library cover the most common components that are most likely to be placed on the periphery of a PSoC device. These components consist of resistors, capacitors, transistors, inductors, switches, and others. The library is not intended to supply every possible part, but should support a wide range of designs. You can easily create your own part or parts library if your design includes a custom or unique component.

The following sections describe implementation details for each annotation component.

Battery

Symbol Shape



Terminals

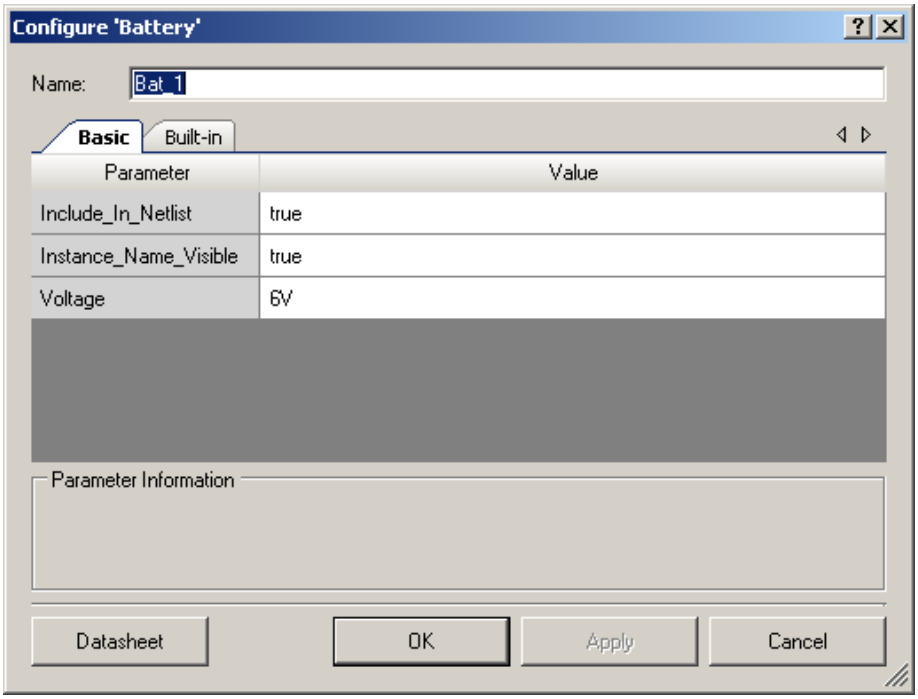
The terminals of the Battery component are:

Pos – Positive battery terminal

Neg – Negative battery terminal

Component Parameters

Drag a Battery component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

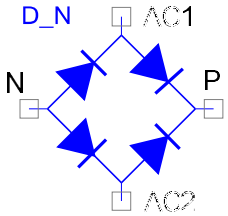
This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Voltage

The **Voltage** parameter is displayed on the schematic next to the component. It will also be used for the SPICE template when that template is supported. Default **Voltage** value is 6V**.**

Bridge Rectifier

Symbol Shape



Terminals

The terminals of the Bridge Rectifier component are:

P – Positive output of the rectifier

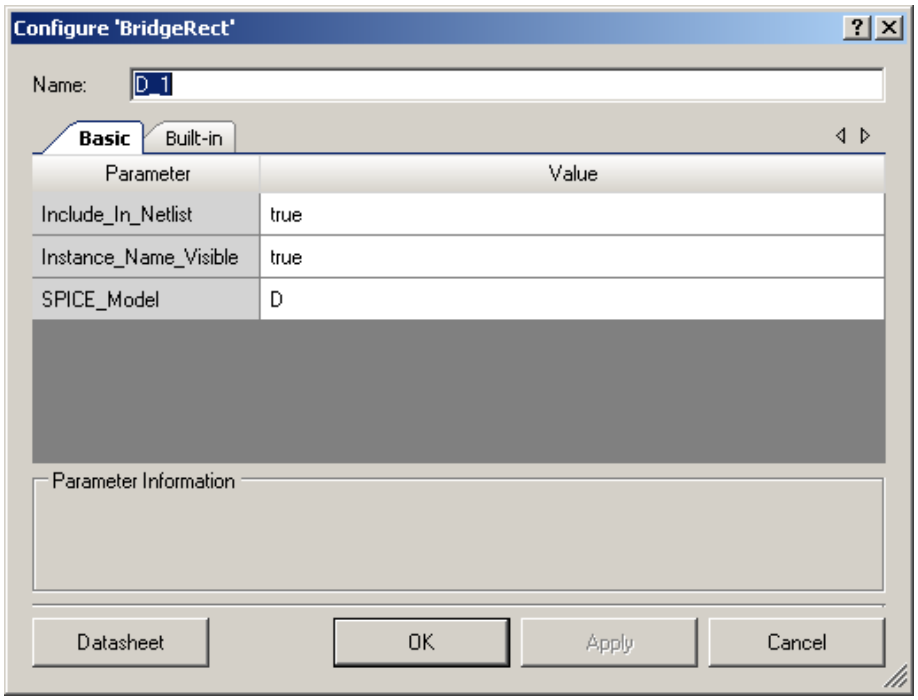
N – Negative output of the rectifier

AC1 – AC input

AC2 – AC input

Component Parameters

Drag a Bridge Rectifier component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

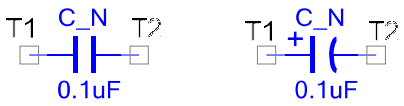
This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

SPICE_Model

This parameter is reserved for future use when the SPICE template is supported. The default string is **D**.

Capacitor

Symbol Shape



Terminals

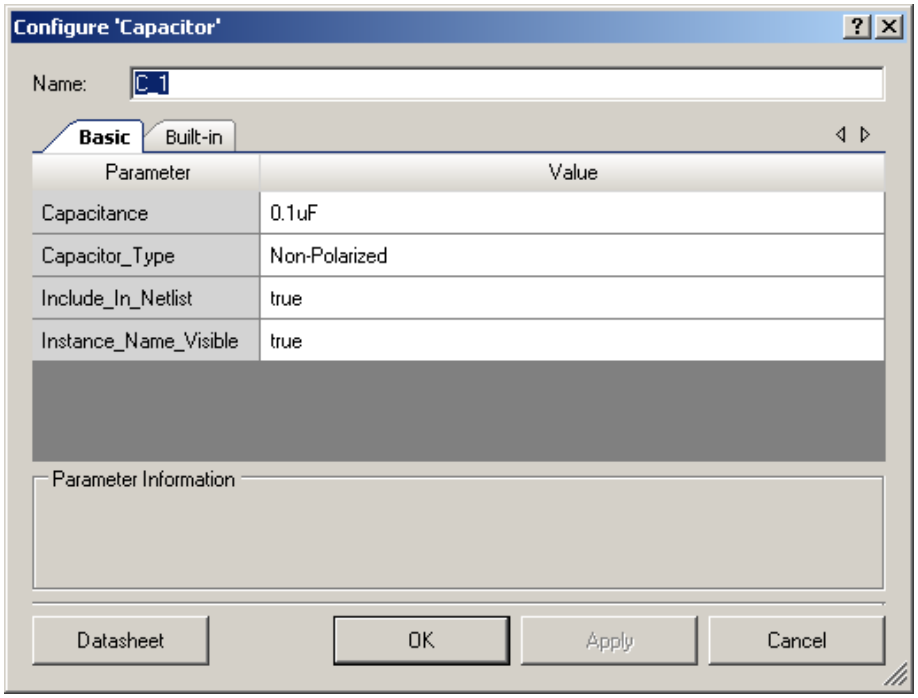
The terminals of the Capacitor component are:

T1 – Capacitor terminal (positive if polarized)

T2 – Capacitor terminal (negative if polarized)

Component Parameters

Drag a Capacitor component onto your design and double-click it to open the **Configure** dialog.



Capacitance

This parameter sets the capacitance of the capacitor. Default capacitance value is **0.1uF**.

Capacitor_Type

This parameter sets the type of the capacitor: **Polarized** or **Non-Polarized**. The default capacitor type is **Non-Polarized**.

Include_In_Netlist

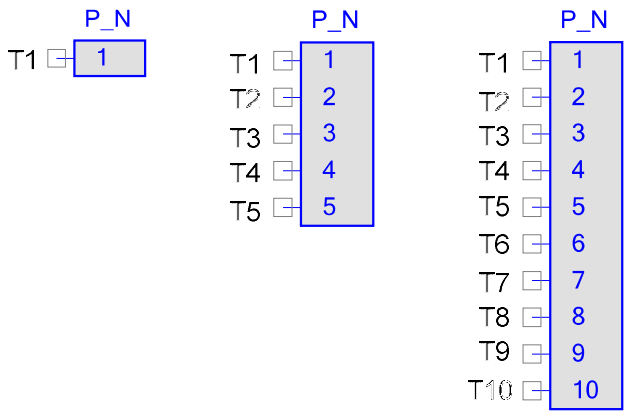
This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Connector20

Symbol Shape



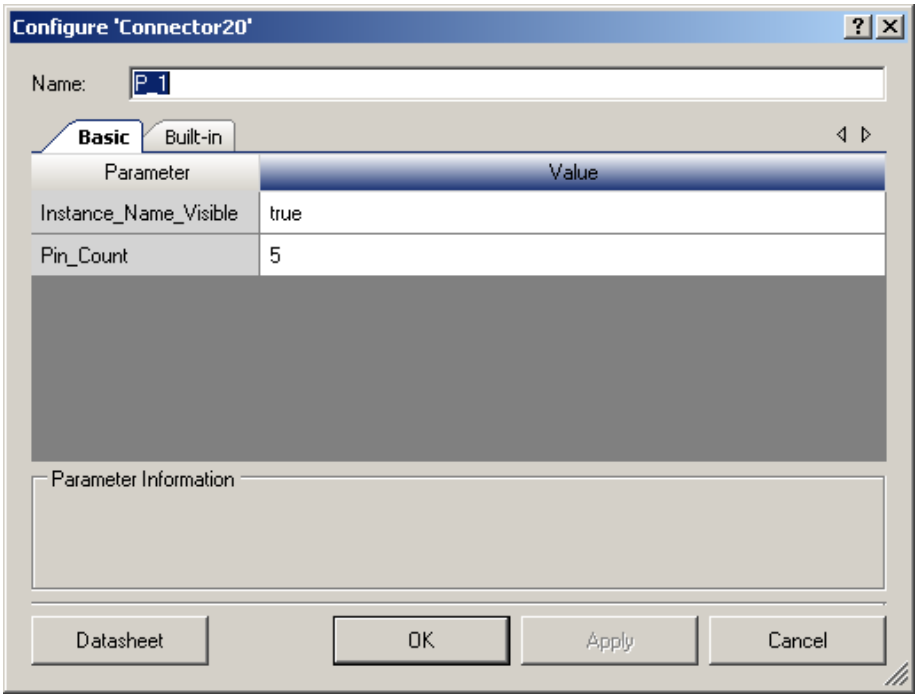
Terminals

The terminals of the Connector20 component are:

T1 to T20 – Connector pins, up to 20

Component Parameters

Drag a Connector20 component onto your design and double-click it to open the **Configure** dialog.



Instance_Name_Visible

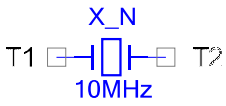
This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Pin_Count

This parameter sets the number of available pins in the connector. This count can vary from 1 to 20. The default pin count is **5**.

Crystal

Symbol Shape



Terminals

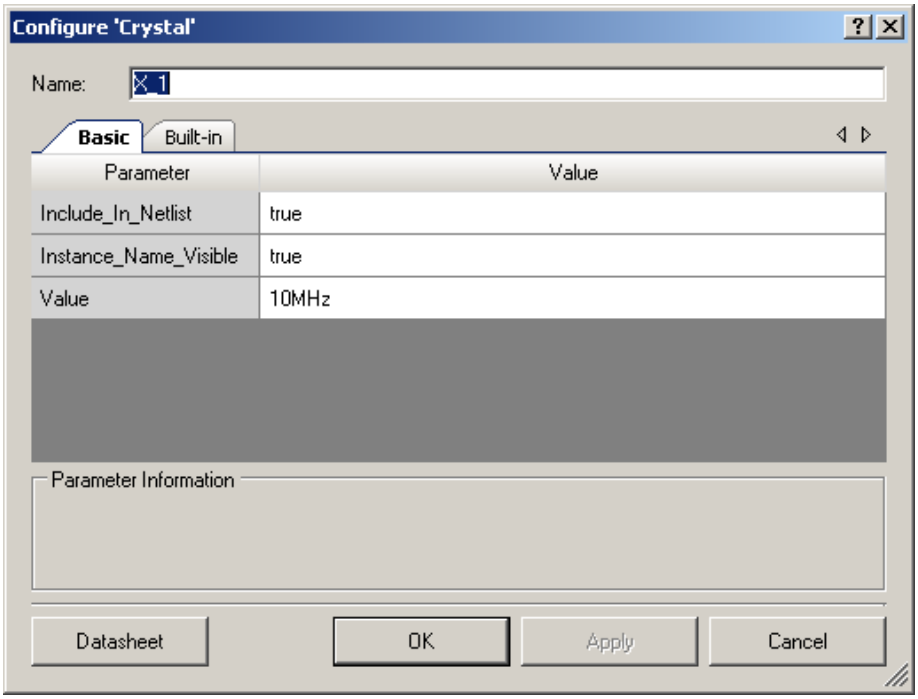
The terminals of the Crystal component are:

T1 – Crystal terminal 1

T2 – Crystal terminal 2

Component Parameters

Drag a Crystal component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Value

This parameter sets the frequency of the crystal. Default frequency is **10MHz**.

Diode

Symbol Shape



Terminals

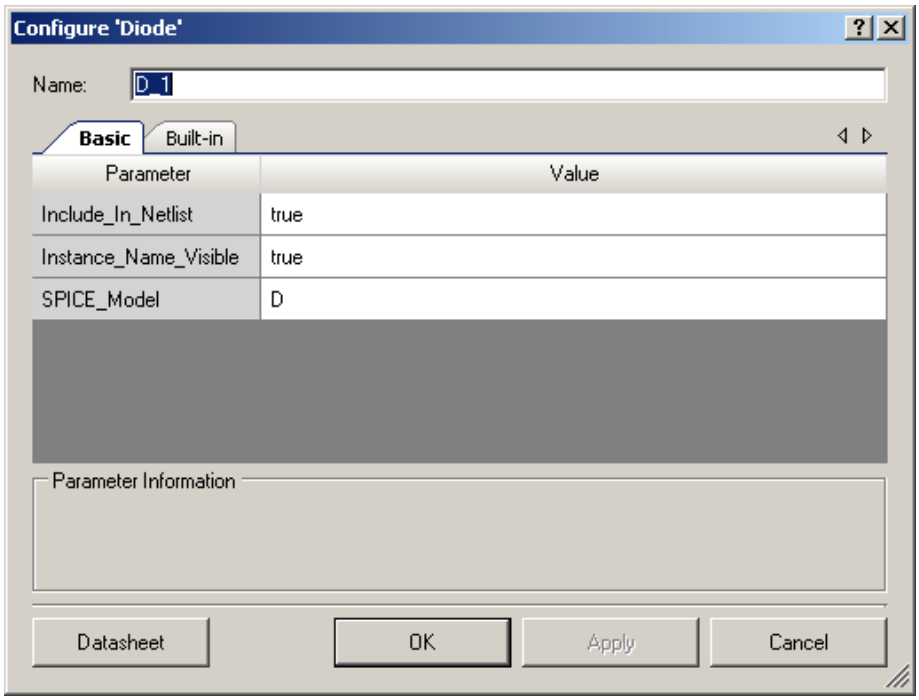
The terminals of the Diode component are:

A – Anode terminal

K – Cathode terminal

Component Parameters

Drag a Diode component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

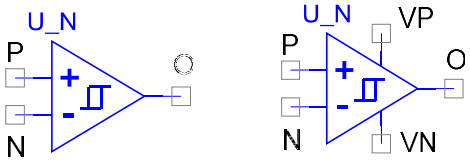
This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

SPICE_Model

This parameter is reserved for future use when the SPICE template is supported. The default string is **D**.

ExtComp

Symbol Shape



Terminals

The terminals of the Comparator component are:

P – Noninverting input

N – Inverting input

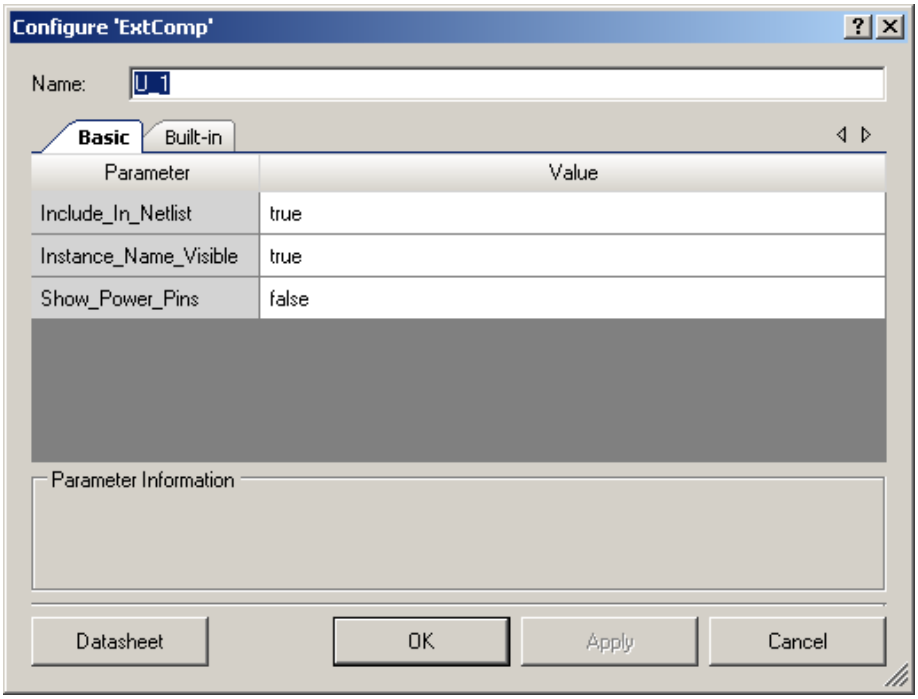
O – Comparator output

VP – Positive supply

VN – Negative supply

Component Parameters

Drag a Comparator component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

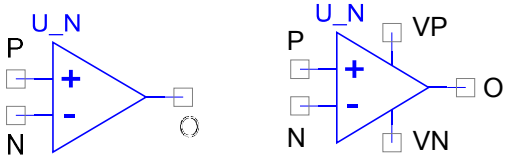
This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Show_Power_Pins

This parameter is used to show power pins in the comparator. Setting this parameter to **true** shows the power pins. The default is **false**.

ExtOpAmp

Symbol Shape



Terminals

The terminals of the Opamp component are:

P – Noninverting input

N – Inverting input

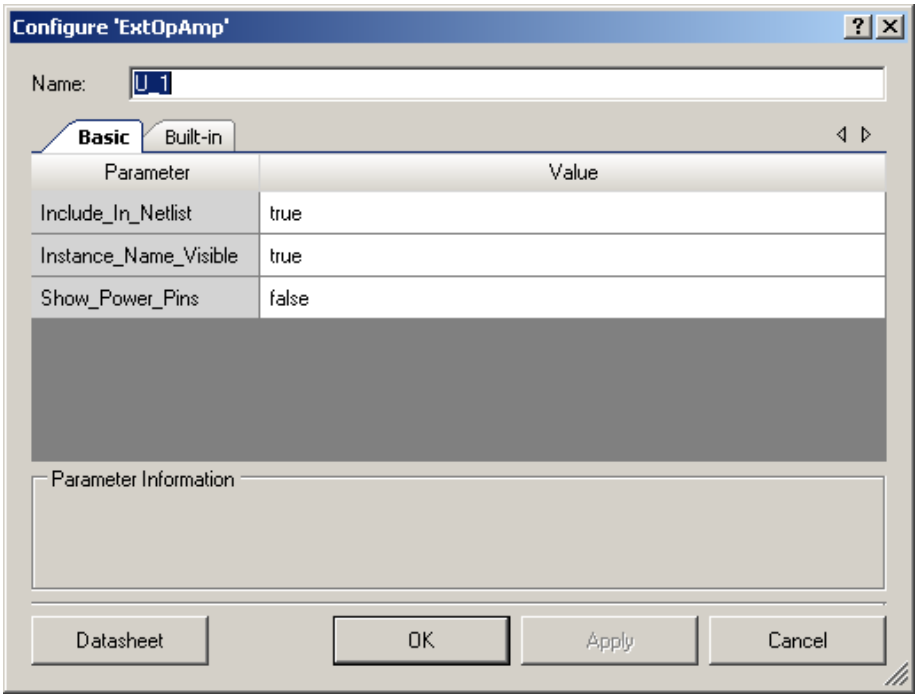
O – Opamp output

VP – Positive supply

VN – Negative supply

Component Parameters

Drag an Opamp component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

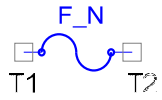
This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Show_Power_Pins

This parameter is used to show power pins in the opamp. Setting this parameter to **true** shows the power pins. The default is **false**.

Fuse

Symbol Shape



Terminals

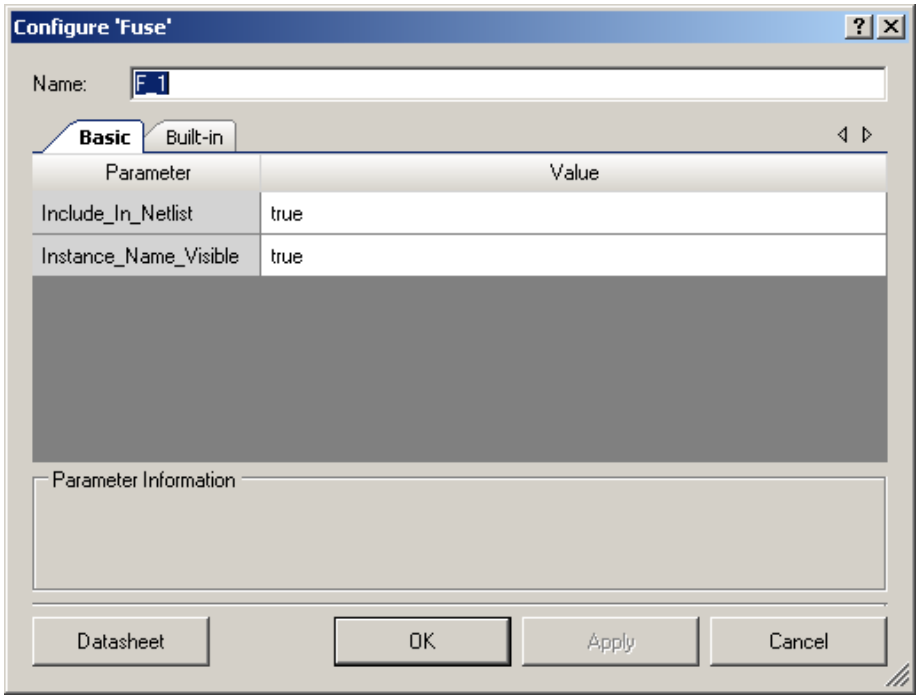
The terminals of the Fuse component are:

T1 – Fuse terminal 1

T2 – Fuse terminal 2

Component Parameters

Drag a Fuse component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

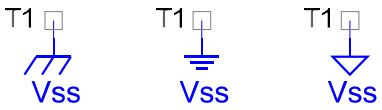
This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

GND

Symbol Shape



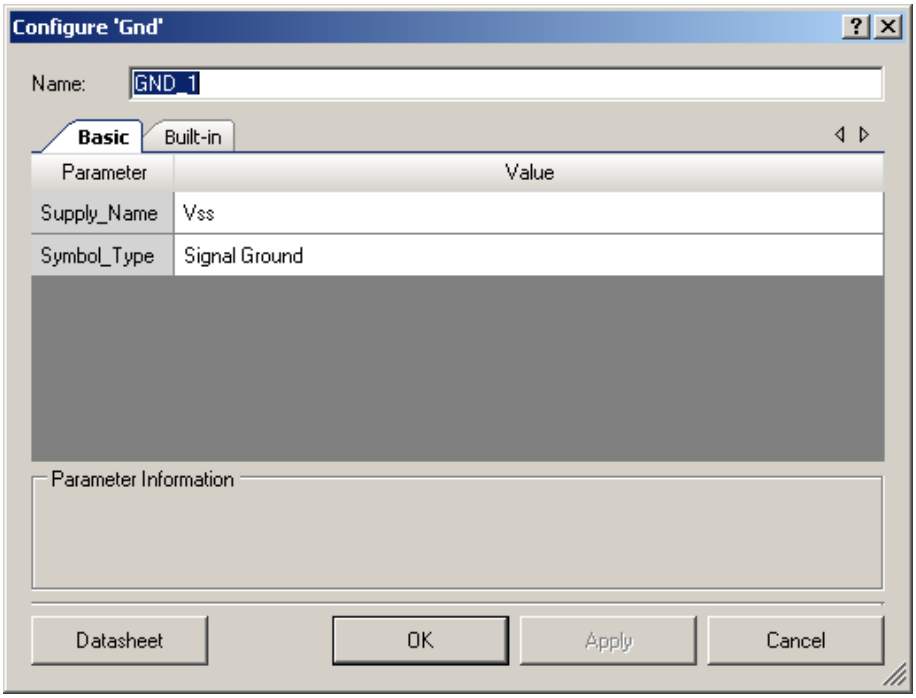
Terminals

The terminals of the Ground component are:

T1 – Ground node connection

Component Parameters

Drag a GND component onto your design and double-click it to open the **Configure** dialog.



Supply_Name

This parameter sets the ground name of the supply used. Default supply name is **Vss**.

Symbol_Type

This parameter sets the symbol type of the ground used. Default symbol type is **Signal Ground**.

Inductor

Symbol Shape



Terminals

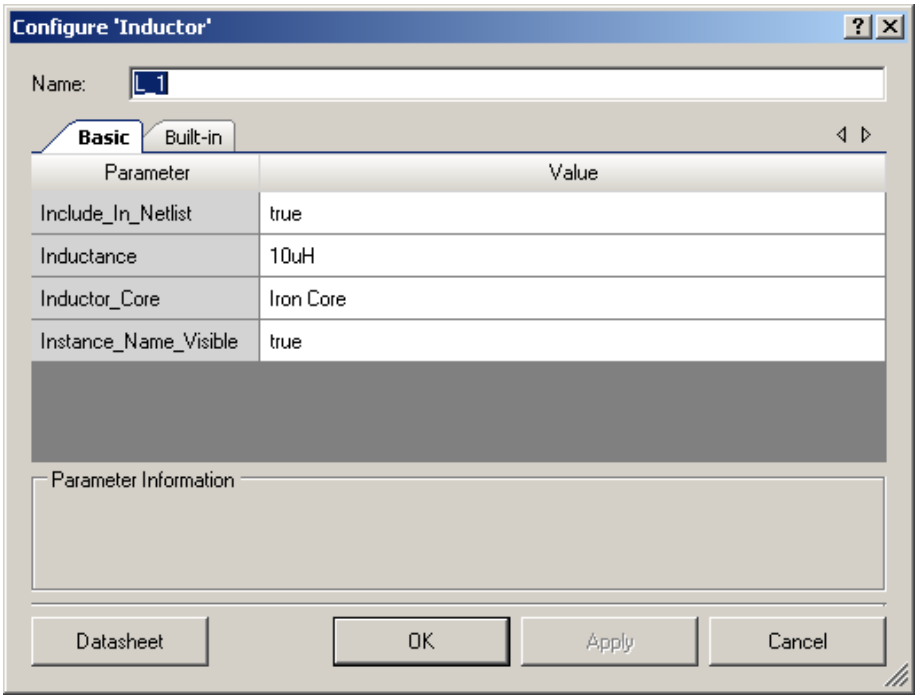
The terminals of the Inductor component are:

T1 – Inductor terminal 1

T2 – Inductor terminal 2

Component Parameters

Drag an Inductor component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

This parameter is reserved for future use when the SPICE template is supported.

Inductance

This parameter sets the inductance of the inductor used. The default is **10uH**.

Inductor Core

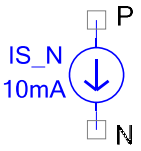
This parameter sets the type of the inductor core used. The default is **Iron Core**.

Instance_Name_Visible

This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Isource

Symbol Shape



Terminals

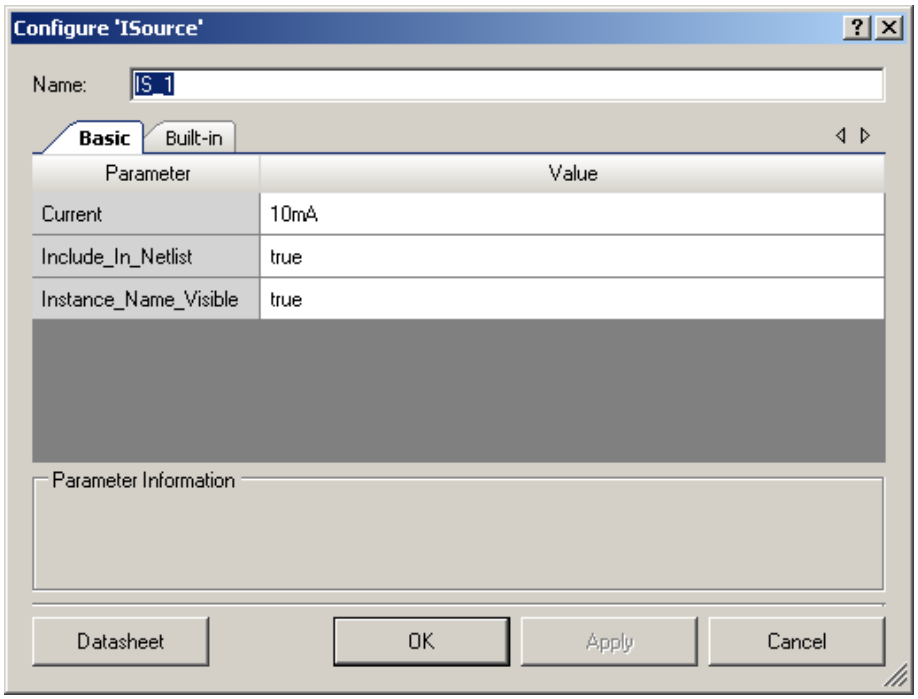
The terminals of the Current Source component are:

P – Positive terminal

N – Negative terminal

Component Parameters

Drag an ISource component onto your design and double-click it to open the **Configure** dialog.



Current

This parameter is used to set the current output of the current source. Default current value is **10mA**.

Include_In_Netlist

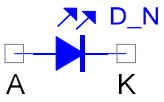
This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

LED

Symbol Shape



Terminals

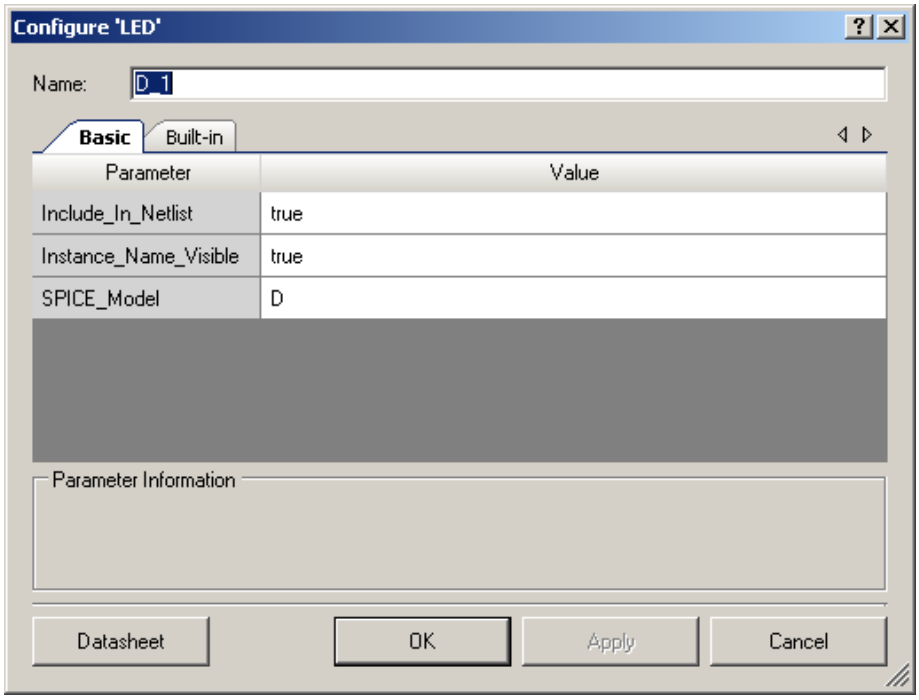
The terminals of the LED component are:

A – Anode terminal

K – Cathode terminal

Component Parameters

Drag an LED component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

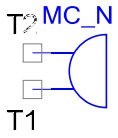
This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

SPICE_Model

This parameter is reserved for future use when the SPICE template is supported. The default string is **D**.

Microphone

Symbol Shape



Terminals

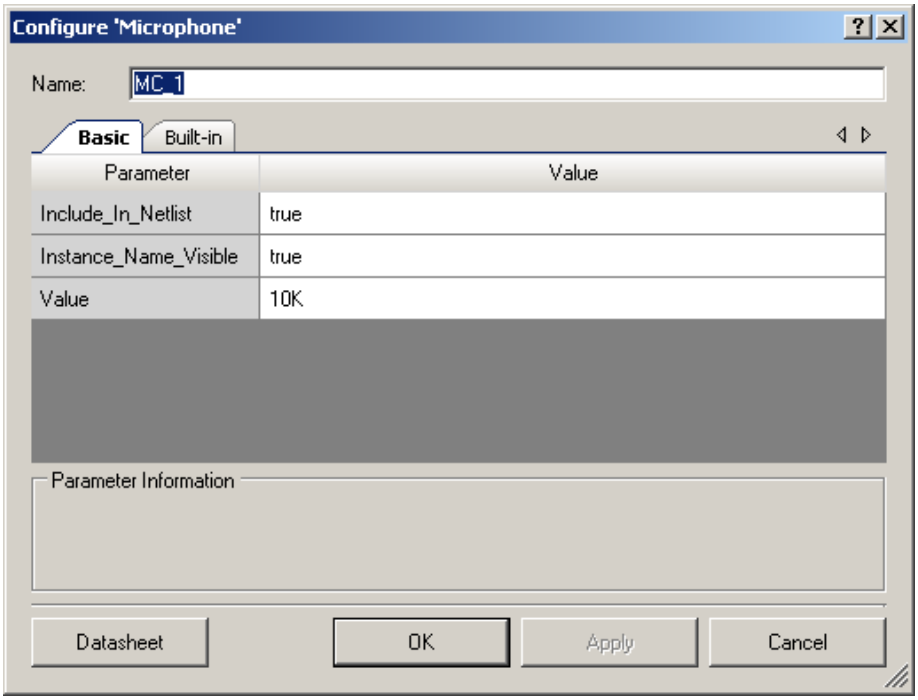
The terminals of the Microphone component are:

T1 – Terminal 1

T2 – Terminal 2

Component Parameters

Drag a Microphone component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

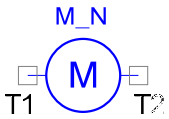
This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Value

This parameter sets the resistance of the microphone in ohms. The default value is **10K**.

Motor

Symbol Shape



Terminals

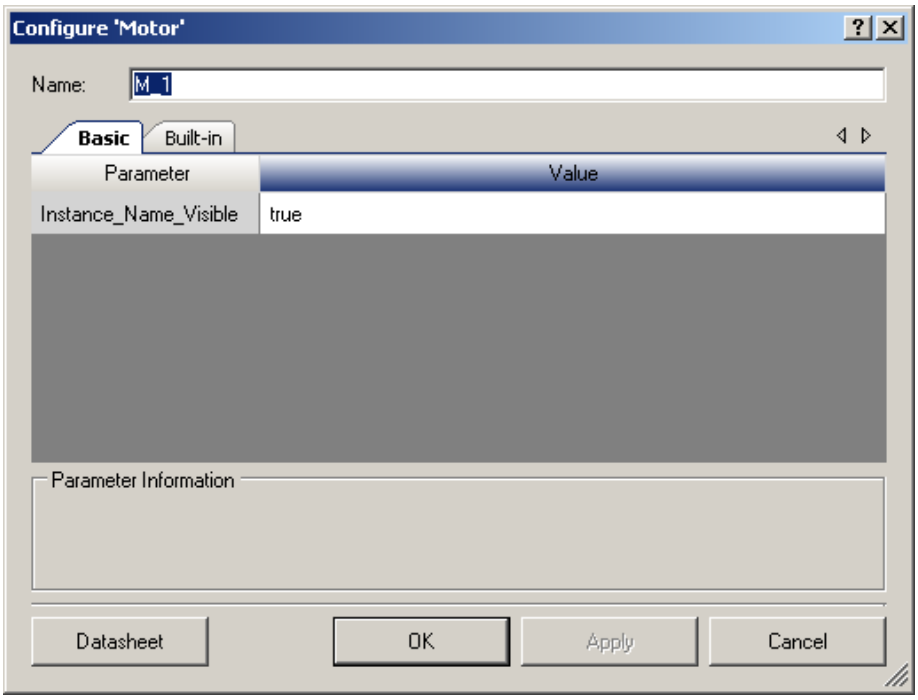
The terminals of the Motor component are:

T1 – Terminal 1

T2 – Terminal 2

Component Parameters

Drag a Motor (DC) component onto your design and double-click it to open the **Configure** dialog.

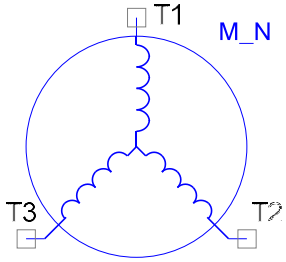


Instance_Name_Visible

This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Motor3PH

Symbol Shape



Terminals

The terminals of the Motor3PH component are:

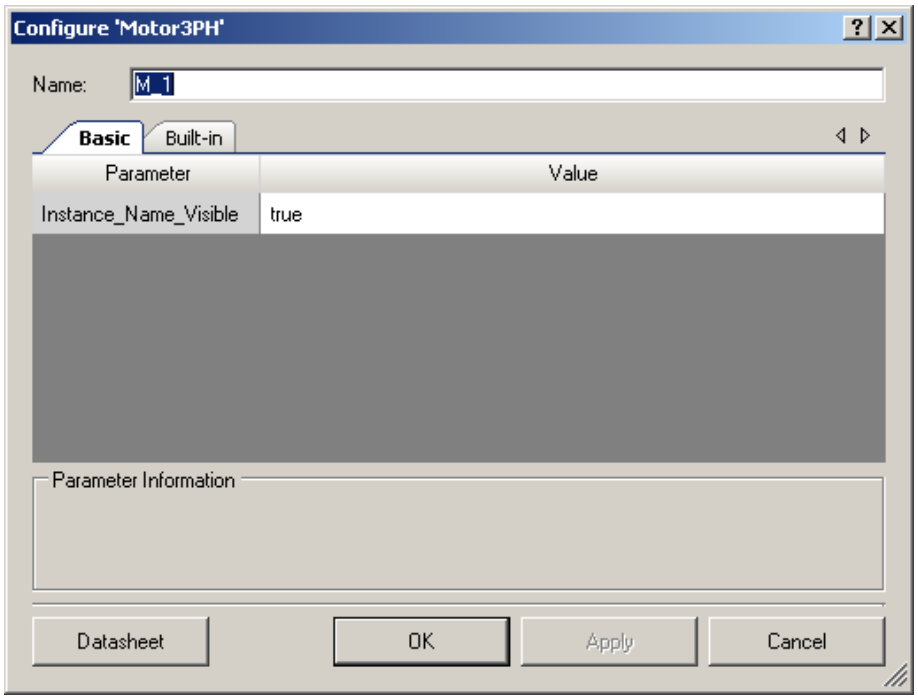
T1 – Terminal 1

T2 – Terminal 2

T3 – Terminal 3

Component Parameters

Drag a Motor (3 Phase) component onto your design and double-click it to open the **Configure** dialog.

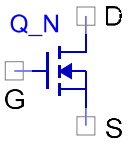


Instance_Name_Visible

This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

NFET_En

Symbol Shape



Terminals

This section describes the various terminals of the NFET_En component.

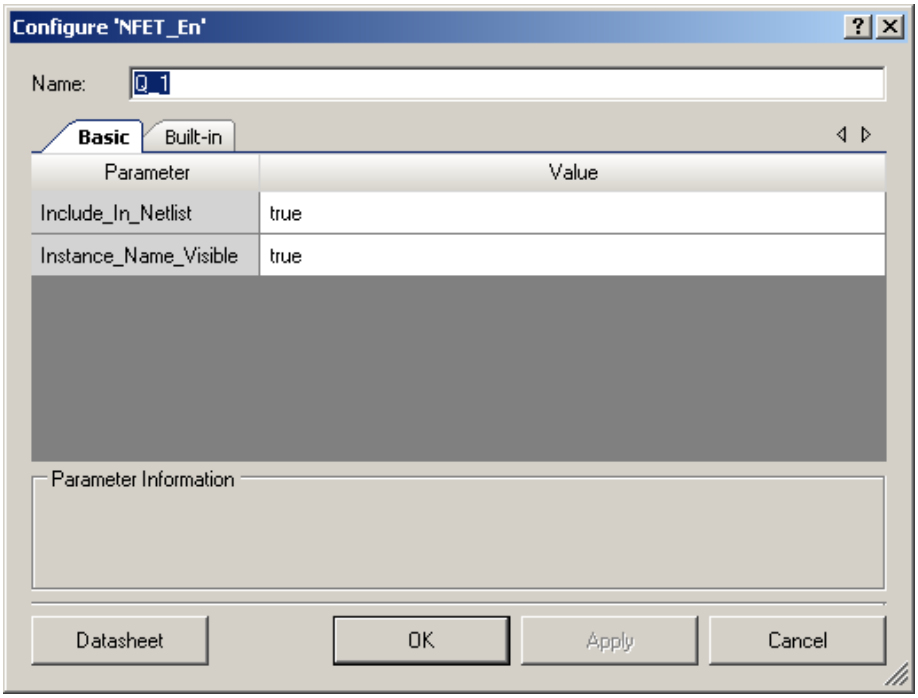
D – Drain

S – Source

G – Gate

Component Parameters

Drag an NFET_En component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

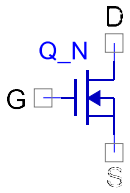
This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

NFET

Symbol Shape



Terminals

The terminals of the NFET (Depletion Mode) component are:

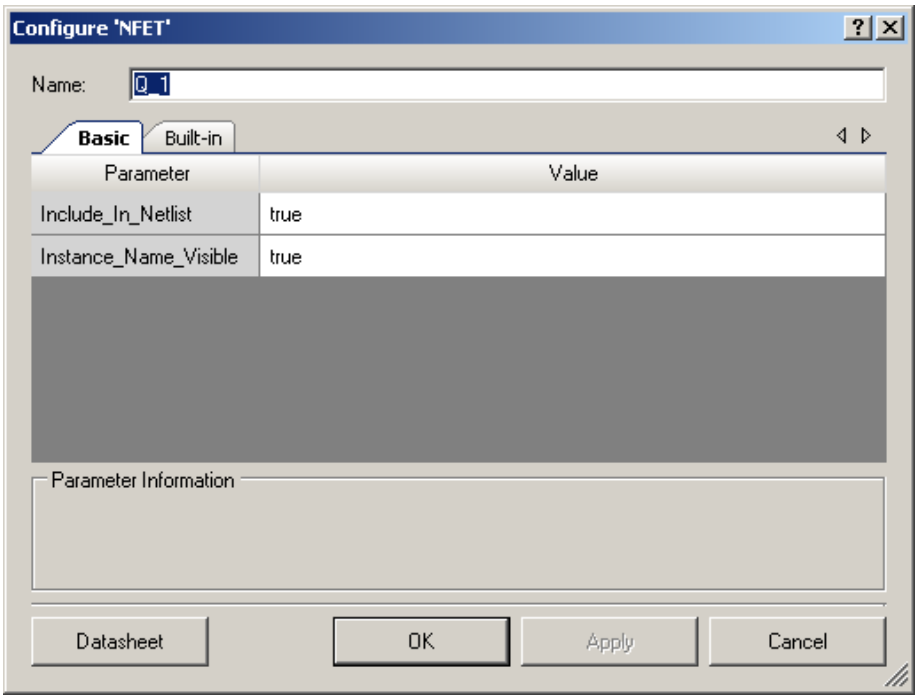
D – Drain

S – Source

G – Gate

Component Parameters

Drag an NFET (Depletion Mode) component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

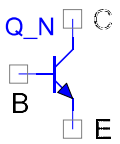
This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

NPN Transistor

Symbol Shape



Terminals

The terminals of the NPN Transistor component are:

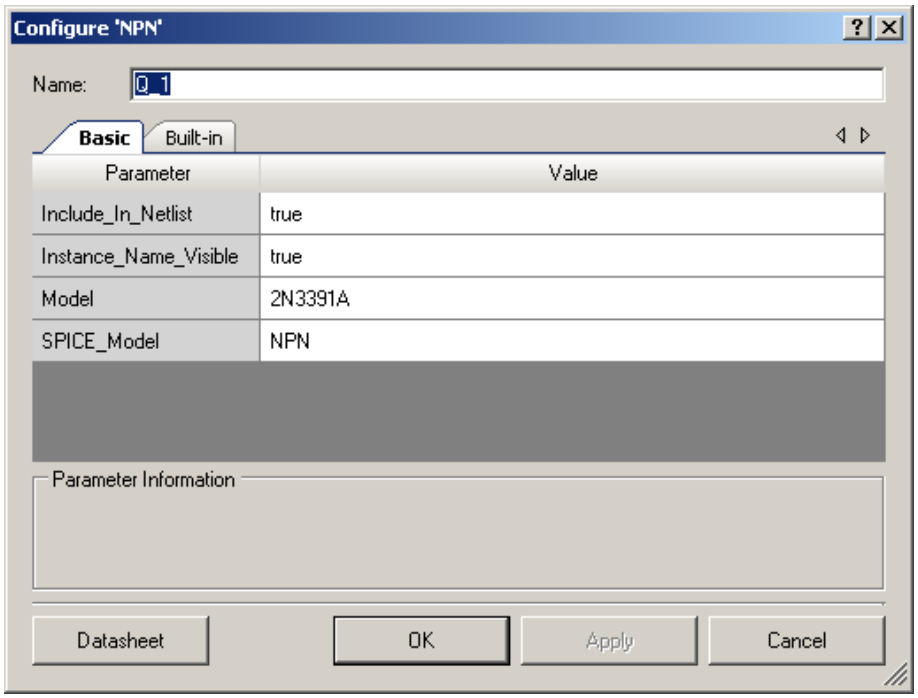
E – Emitter

B – Base

C – Collector

Component Parameters

Drag an NPN Transistor component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

SPICE_Model

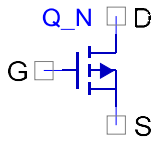
This parameter is reserved for future use when the SPICE template is supported. The default string is **NPN**.

Model

This parameter sets the model number of the transistor being used. Default is **2N3391A.**

PFET_En

Symbol Shape



Terminals

The terminals of the PFET_En component are:

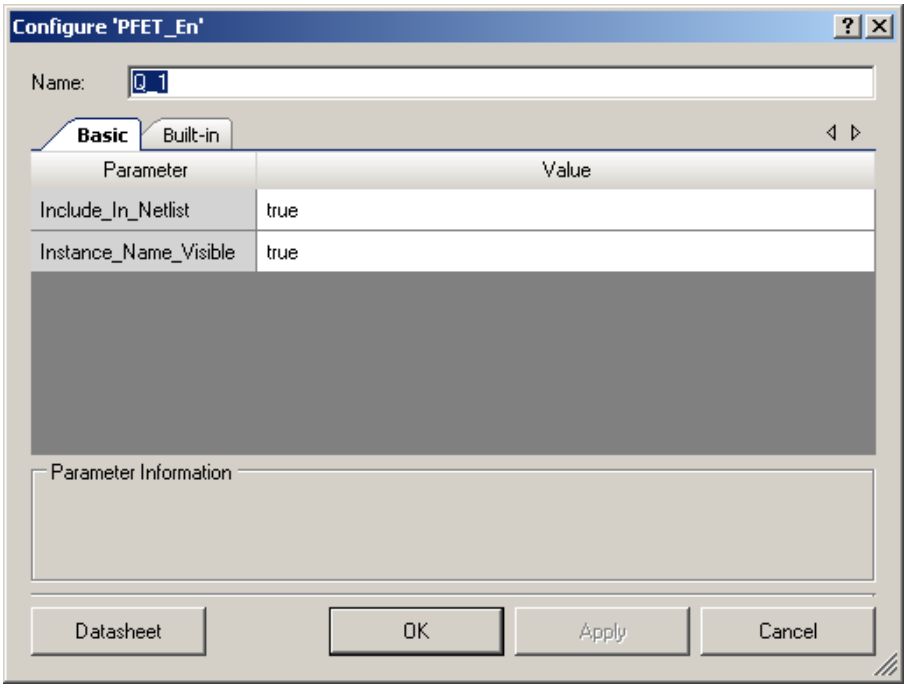
D – Drain

S – Source

G – Gate

Component Parameters

Drag a PFET_En component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

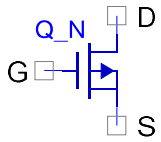
This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

PFET

Symbol Shape



Terminals

The terminals of the PFET (Depletion Mode) component are:

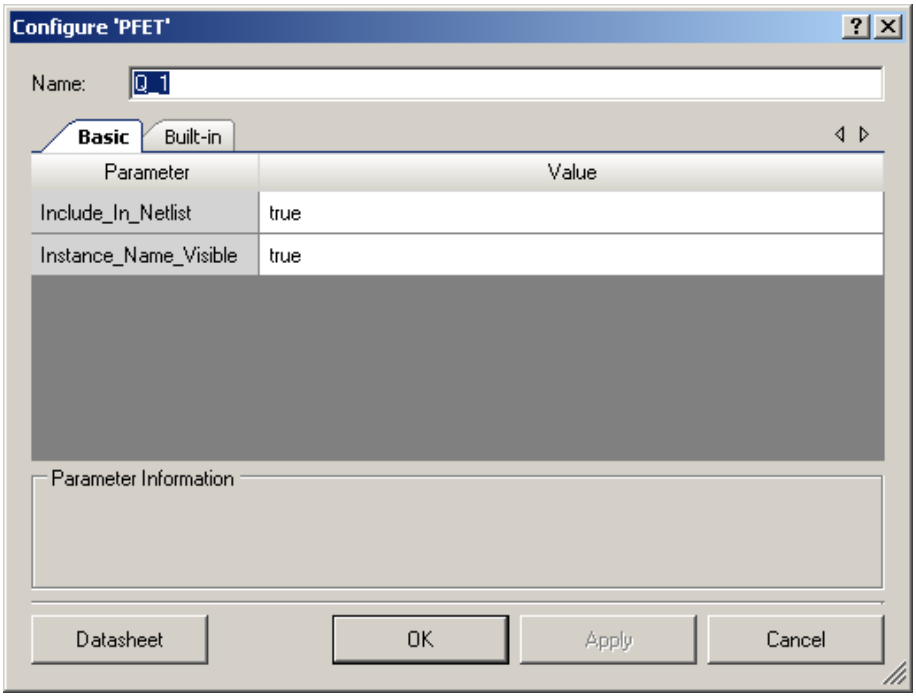
D – Drain

S – Source

G – Gate

Component Parameters

Drag a PFET component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

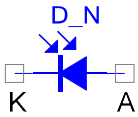
This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Photo Diode

Symbol Shape



Terminals

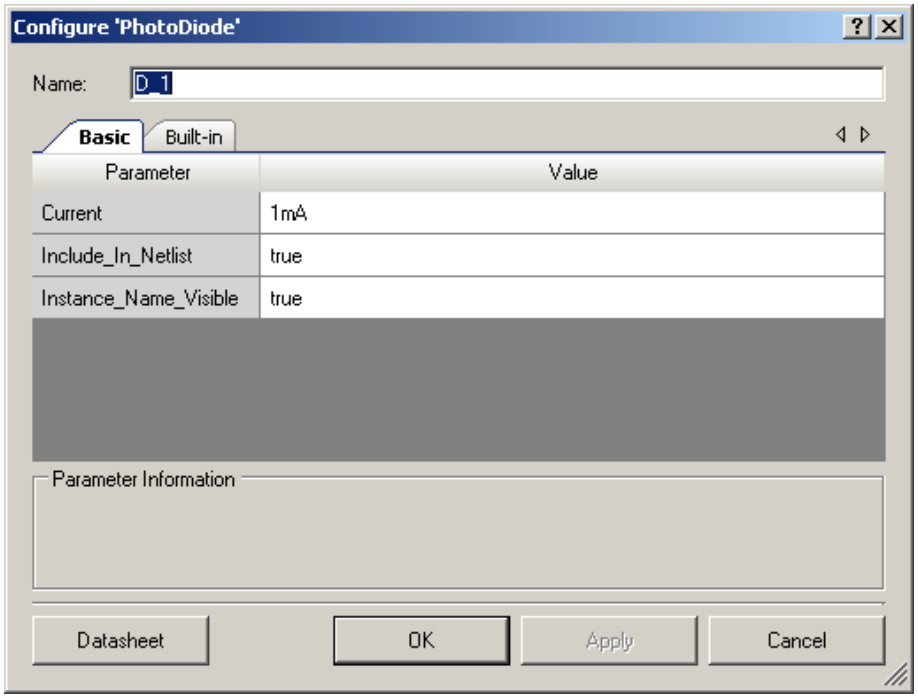
The terminals of the Photo Diode component are:

A – Anode Terminal

K – Cathode Terminal

Component Parameters

Drag a Photo Diode component onto your design and double-click it to open the **Configure** dialog.



Current

This parameter sets the maximum current that can be passed through the diode. The default value is **1mA**.

Include_In_Netlist

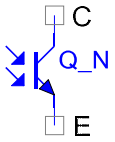
This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Photo Transistor

Symbol Shape



Terminals

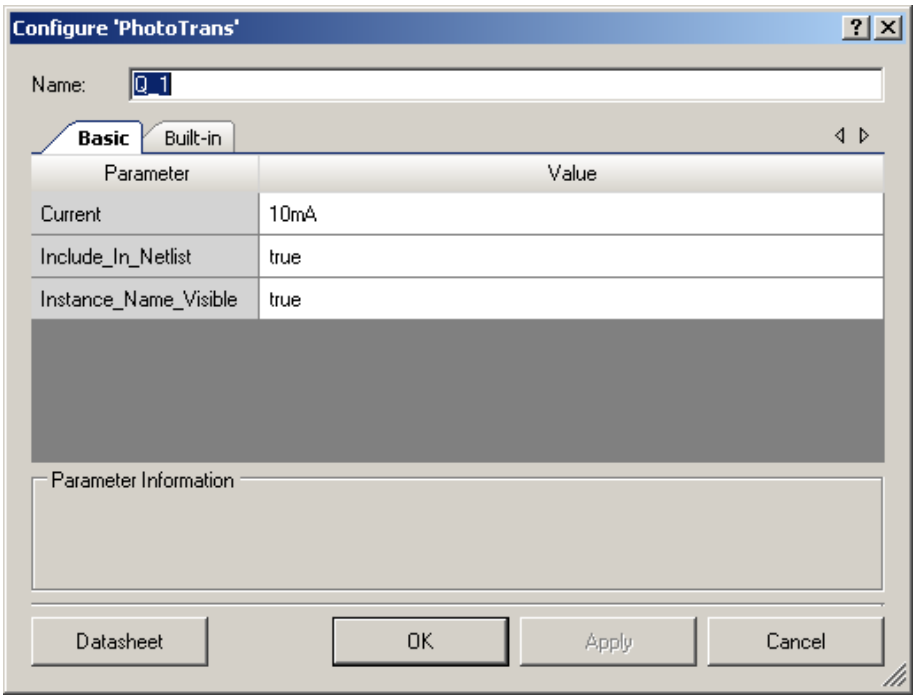
The terminals of the Photo Transistor component are:

E – Emitter

C – Collector

Component Parameters

Drag a Photo Transistor component onto your design and double-click it to open the **Configure** dialog.



Current

This parameter sets the maximum current that can be passed through the photo transistor. The default value is **10mA**.

Include_In_Netlist

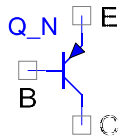
This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

PNP Transistor

Symbol Shape



Terminals

The terminals of the PNP Transistor component are:

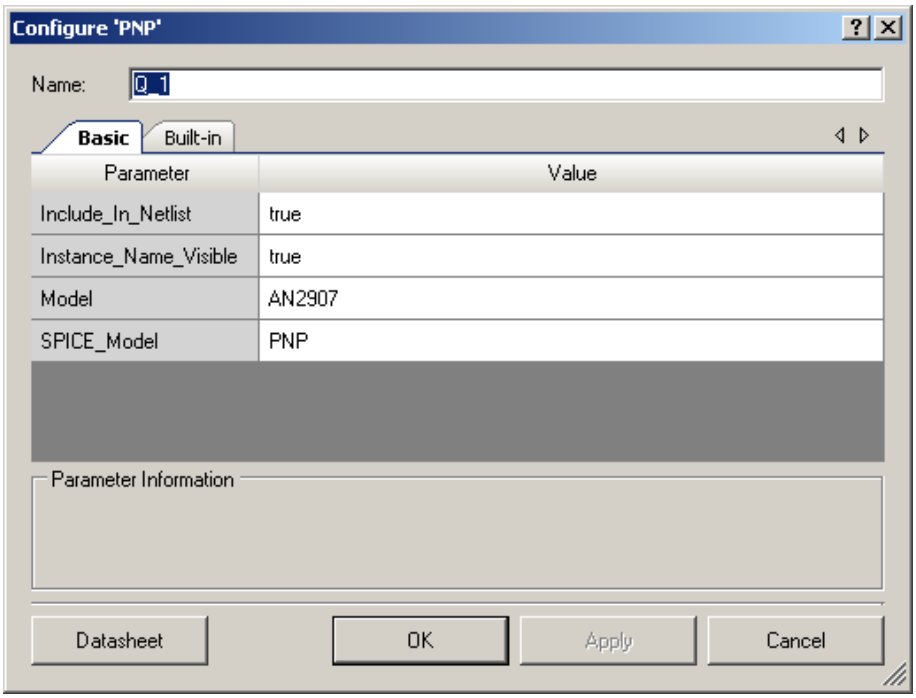
E – Emitter

B – Base

C – Collector

Component Parameters

Drag a PNP Transistor component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Model

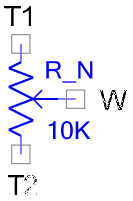
This parameter sets the model number of the transistor being used. Default is **AN2907**.

SPICE_Model

This parameter is reserved for future use when the SPICE template is supported. The default string is **PNP**.

Potentiometer

Symbol Shape



Terminals

The terminals of the Potentiometer component are:

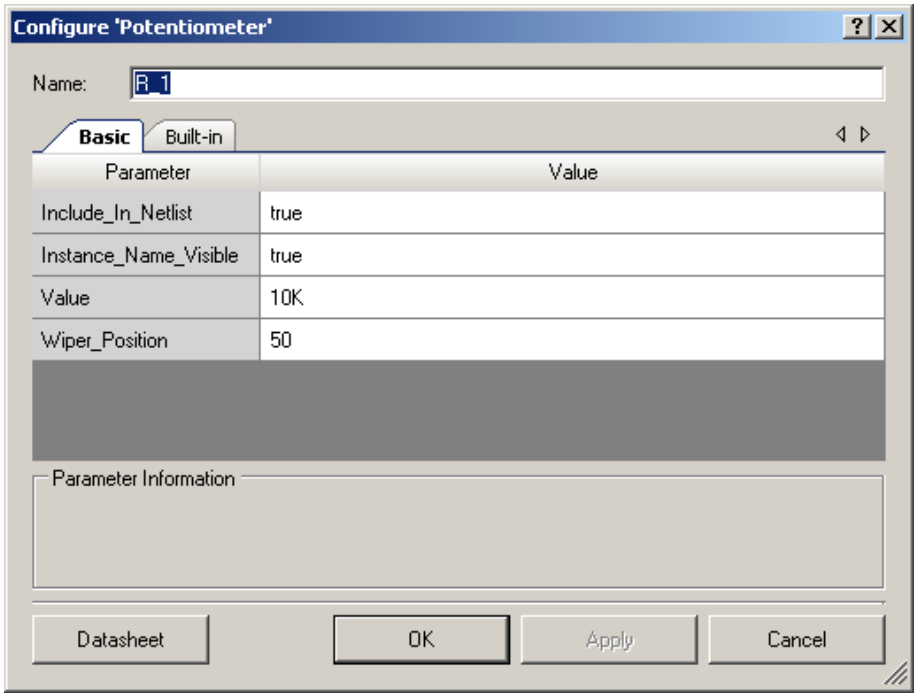
T1 – Terminal 1(CW)

T2 – Terminal 2(CW)

W – Wiper Terminal

Component Parameters

Drag a Potentiometer component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Value

This parameter sets the resistance of the potentiometer in ohms. The default is **10K**.

Wiper_Position

This parameter sets the position of the wiper in potentiometer. The default is **50**.

Power

Symbol Shape



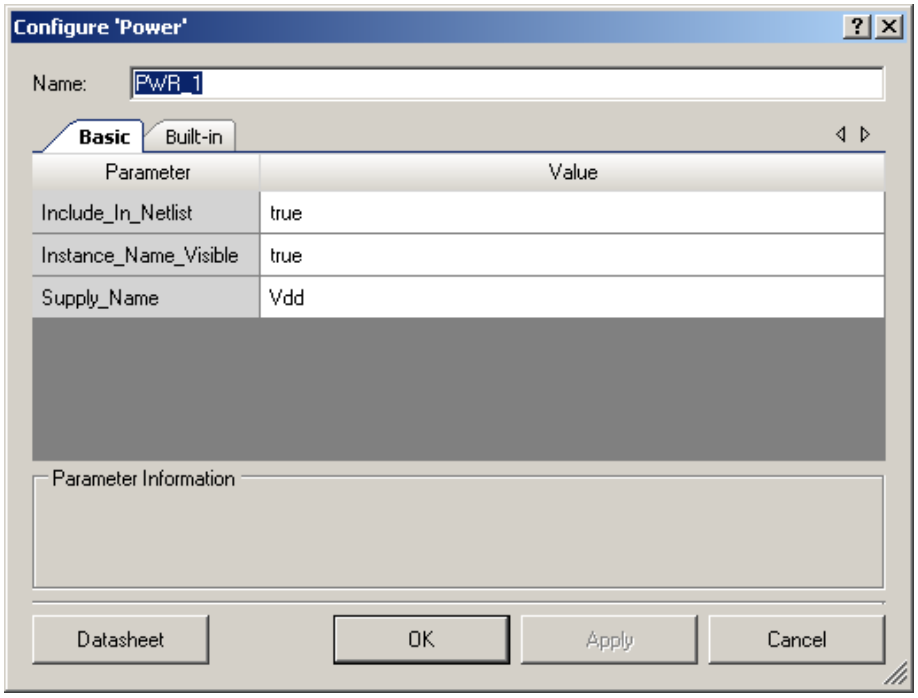
Terminals

The terminals of the Power component are:

T1 – Power node connection.

Component Parameters

Drag a Power component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Supply_Name

This parameter sets the name of the power supply used. The default is **Vdd**.

Relay

Symbol Shape



Terminals

The terminals of the Relay component are:

T1 – Coil Terminal 1

T2 – Coil Terminal 2

C1 – Common terminal for pole 1

NO1 – Normally open terminal for pole 1

NC1 – Normally closed terminal for pole 1

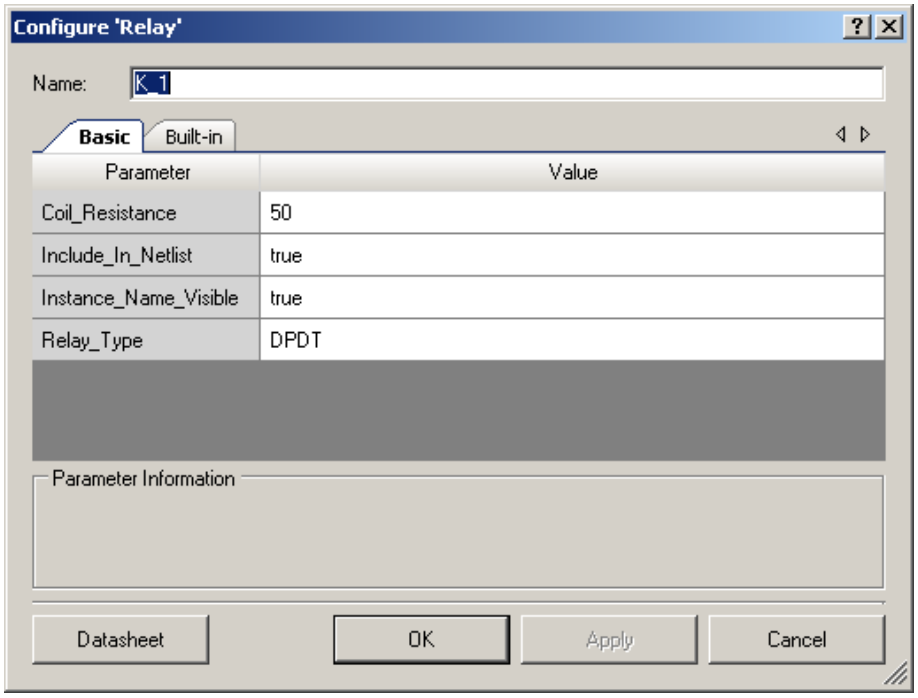
C2 – Common terminal for pole 2

NO2 – Normally open terminal for pole 2

NC2 – Normally closed terminal for pole 2

Component Parameters

Drag a Relay component onto your design and double-click it to open the **Configure** dialog.



Coil_Resistance

This parameter sets the resistance of the coil in relay. Default resistance value is **50** ohms.

Include_In_Netlist

This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

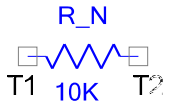
This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Relay_Type

This parameter sets the type of the relay used. Default relay type is **DPDT**.

Resistor

Symbol Shape



Terminals

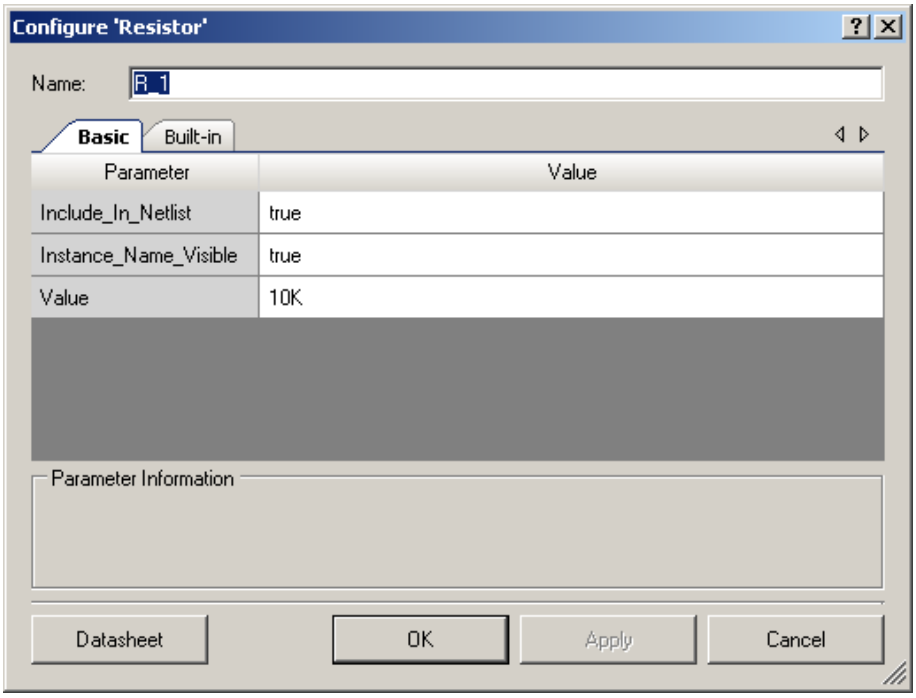
The terminals of the Resistor component are:

T1 – Terminal 1

T2 – Terminal 2

Component Parameters

Drag a Resistor component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

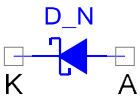
This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Value

This parameter sets the resistance of the resistor used in ohms. Default resistance value is **10K**.

Schottky Diode

Symbol Shape



Terminals

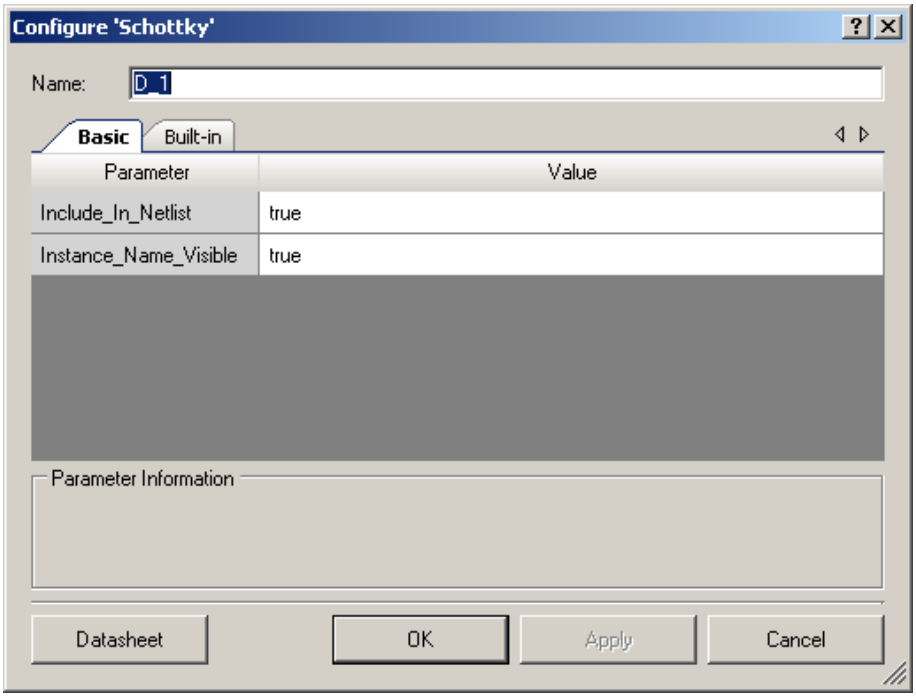
The terminals of the Schottky Diode component are:

A – Anode terminal

K – Cathode terminal

Component Parameters

Drag a Schottky component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

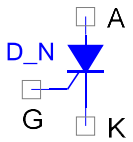
This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

SCR

Symbol Shape



Terminals

The terminals of the SCR component are:

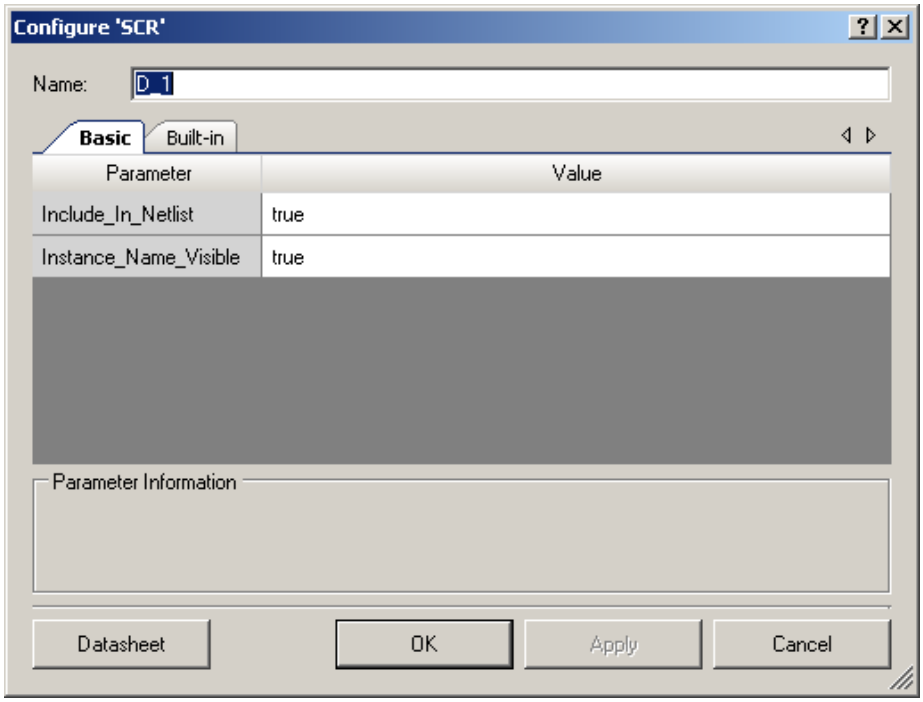
A – Anode terminal

K – Cathode terminal

G – Gate terminal

Component Parameters

Drag an SCR component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

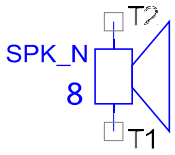
This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Speaker

Symbol Shape



Terminals

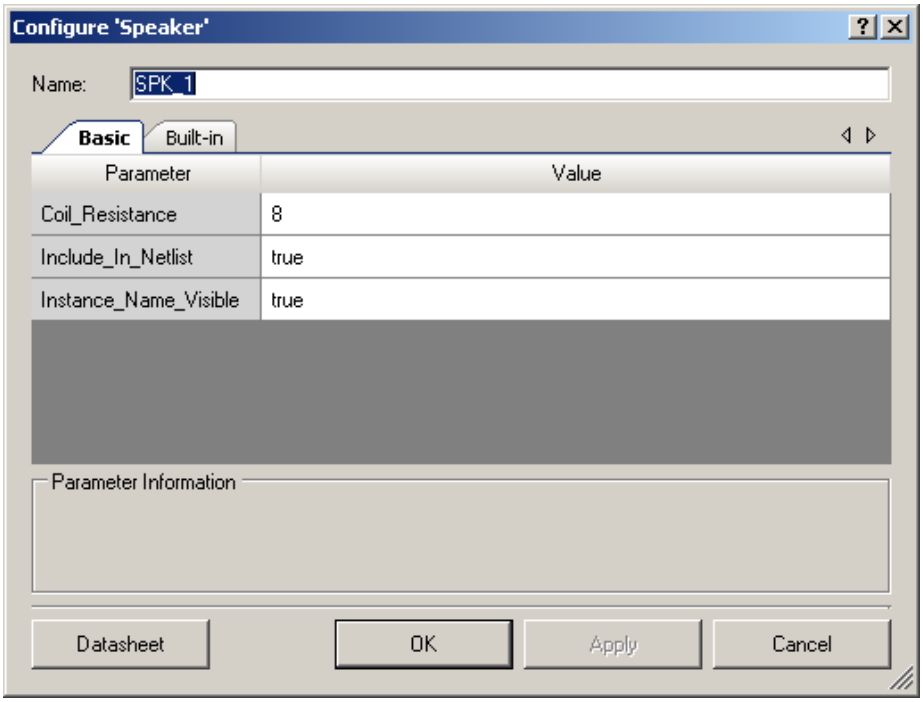
The terminals of the Speaker component are:

T1 – Terminal 1

T2 – Terminal 2

Component Parameters

Drag a Speaker component onto your design and double-click it to open the **Configure** dialog.



Coil_Resistance

This parameter sets the coil resistance of the speaker in ohms. The default is **8**.

Include_In_Netlist

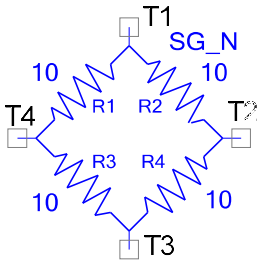
This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Strain Gauge

Symbol Shape



Terminals

The terminals of the StrainGauge component are:

T1 – Top terminal

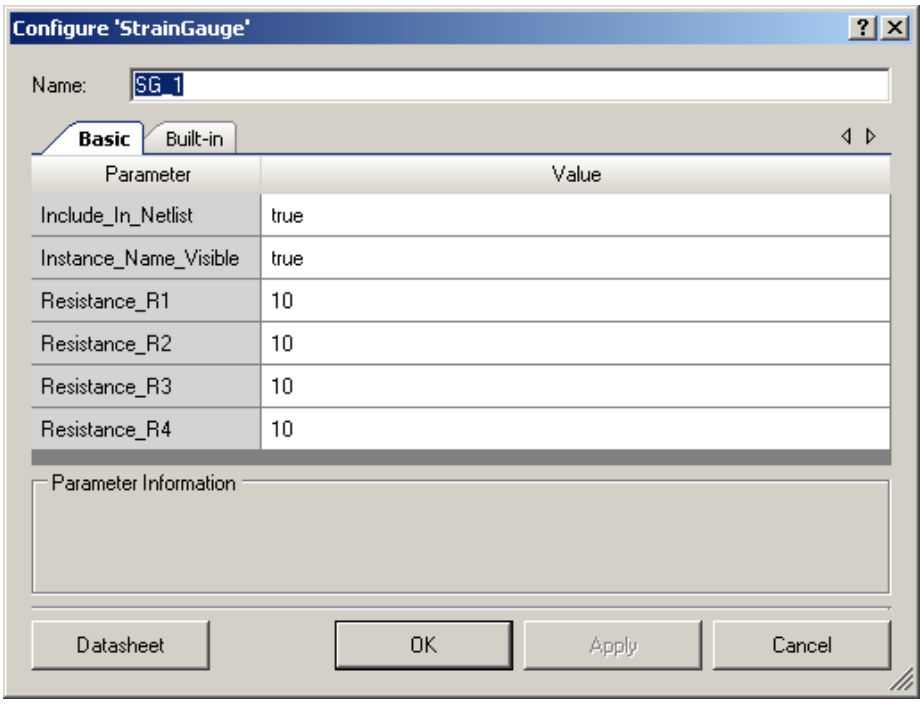
T2 – Right terminal.

T3 – Bottom terminal.

T4 – Left terminal.

Component Parameters

Drag a StrainGauge component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Resistance_R1

This parameter sets the resistance R1 in StrainGauge. Default value is **10**.

Resistance_R2

This parameter sets the resistance R2 in StrainGauge. Default value is **10**.

Resistance_R3

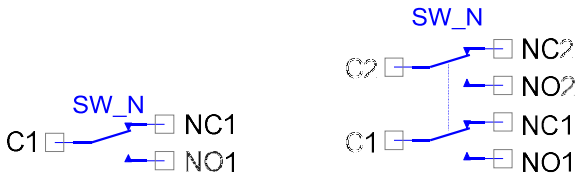
This parameter sets the resistance R3 in StrainGauge. Default value is **10**.

Resistance_R4

This parameter sets the resistance R4 in StrainGauge. Default value is **10**.

SwitchDT

Symbol Shape



Terminals

The terminals of the SwitchDT component are:

C1 – Common terminal for pole 1

NO1 – Normally open terminal for pole 1

NC1 – Normally closed terminal for pole 1

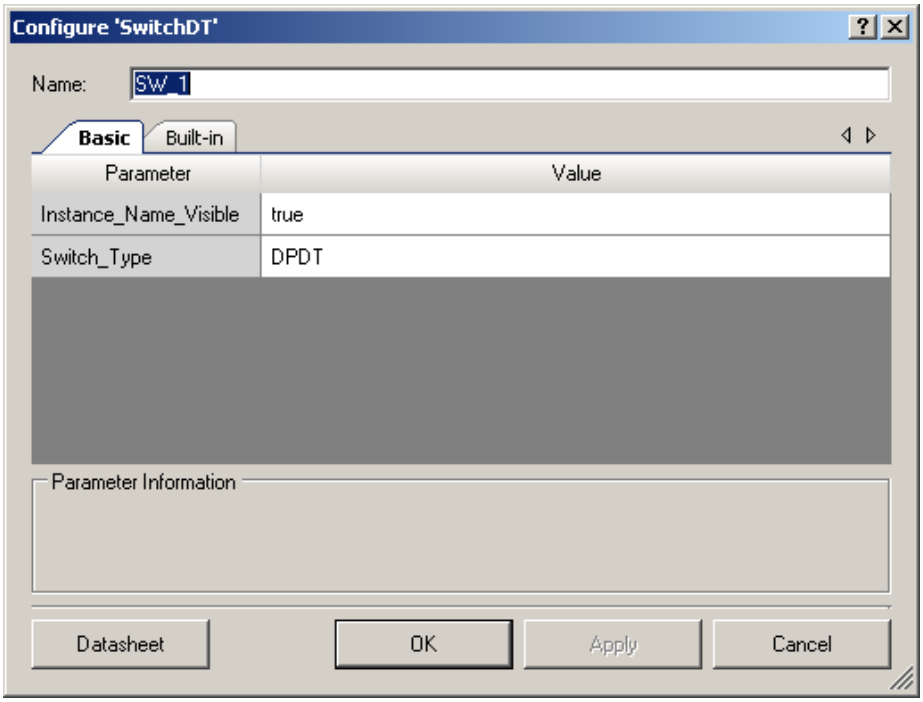
C2 – Common terminal for pole 2

NO2 – Normally open terminal for pole 2

NC2 – Normally closed terminal for pole 2

Component Parameters

Drag a SwitchDT component onto your design and double-click it to open the **Configure** dialog.



Instance_Name_Visible

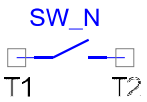
This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Switch_Type

This parameter sets the type of switch used, **DPDT** or **SPDT**. The default is **DPDT**.

SwitchSPST

Symbol Shape



Terminals

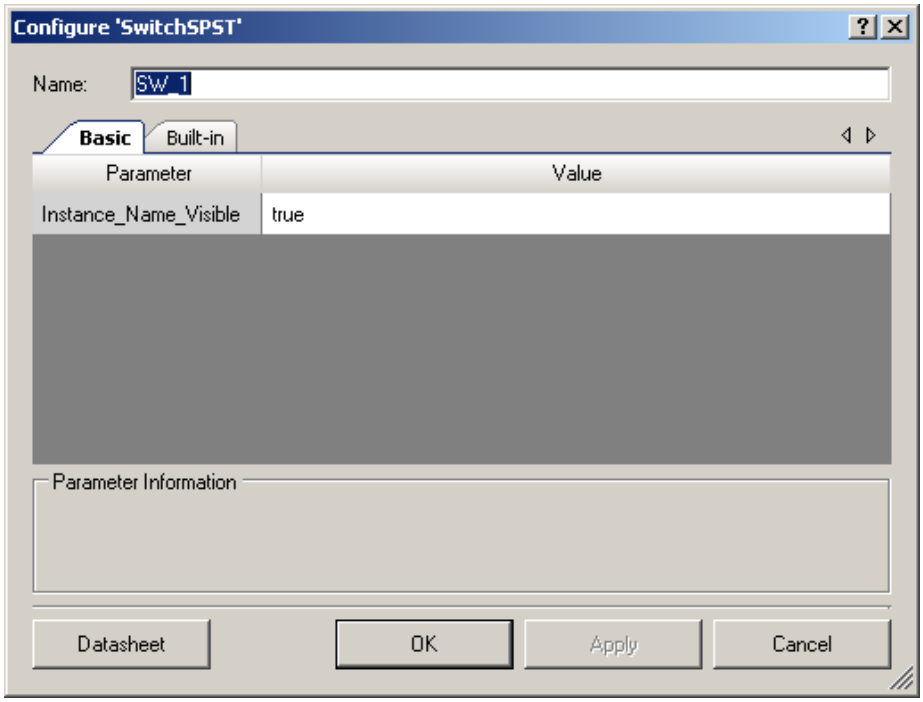
The terminals of the SwitchSPST component are:

T1 – Switch terminal 1

T2 – Switch terminal 2

Component Parameters

Drag a SwitchSPST component onto your design and double-click it to open the **Configure** dialog.



Instance_Name_Visible

This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Test Point

Symbol Shape



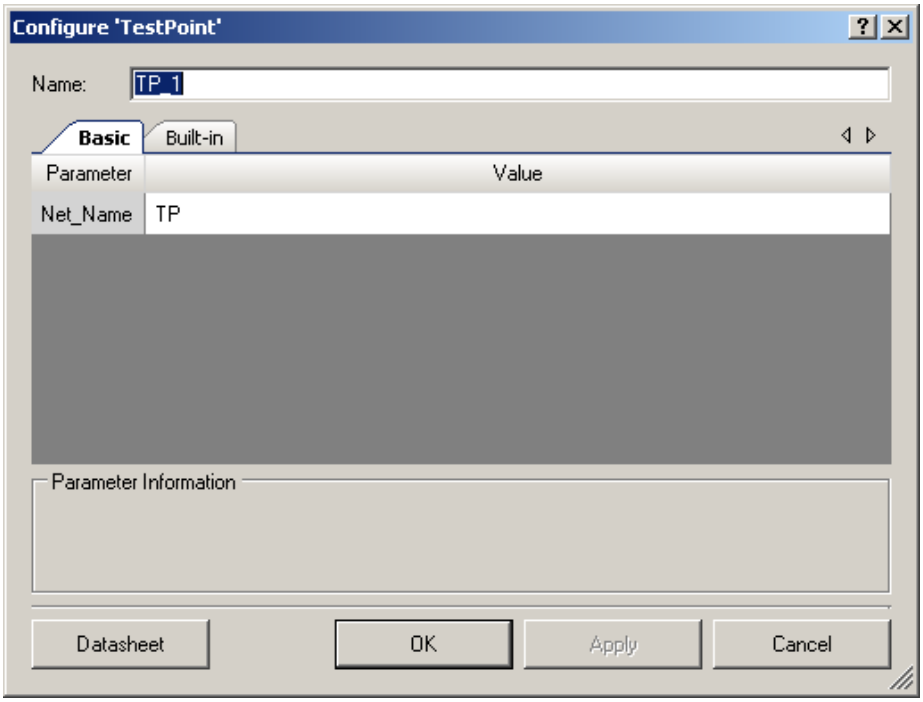
Terminals

The terminals of the Test Point component are:

T1 – Net node connection

Component Parameters

Drag a Test Point component onto your design and double-click it to open the **Configure** dialog.

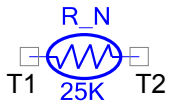


Net_Name

This parameter sets the net name of the test point used. The default name is **TP**.

Thermistor

Symbol Shape



Terminals

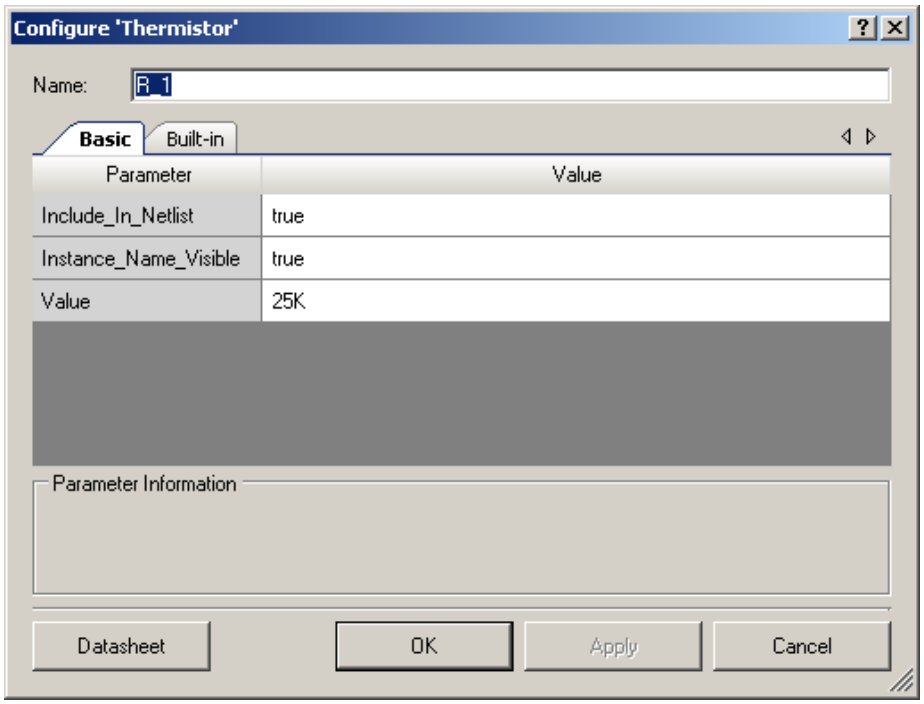
The terminals of the Thermistor component are:

T1 – Terminal 1

T2 – Terminal 2

Component Parameters

Drag a Thermistor component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

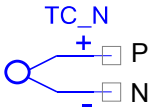
This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Value

This parameter sets the resistance of the thermistor. The default is **25K**.

Thermocouple

Symbol Shape



Terminals

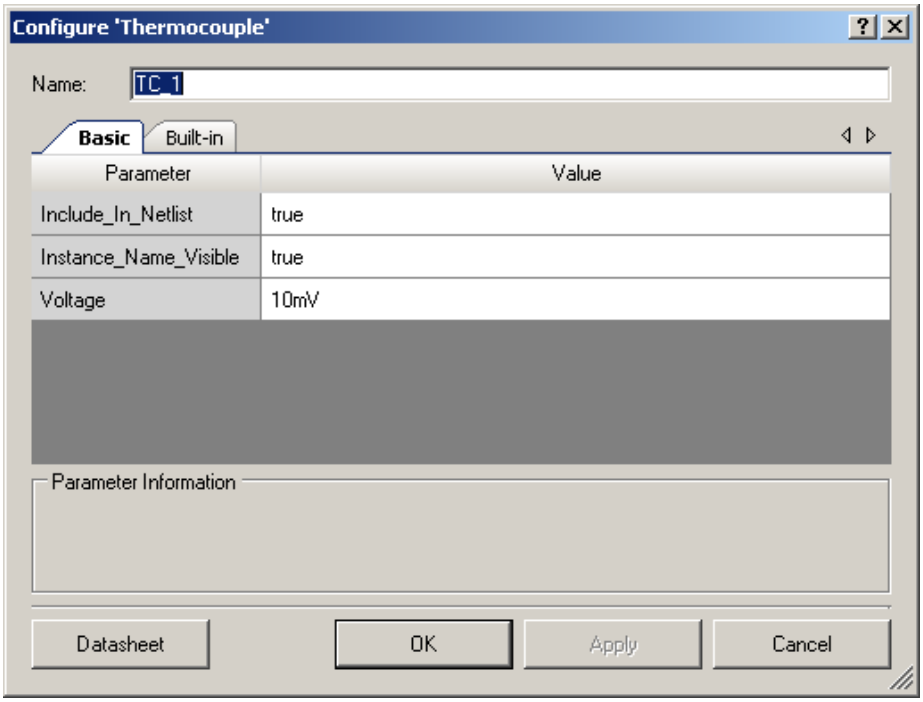
The terminals of the Thermocouple component are:

P – Positive terminal

N – Negative terminal

Component Parameters

Drag a Thermocouple component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

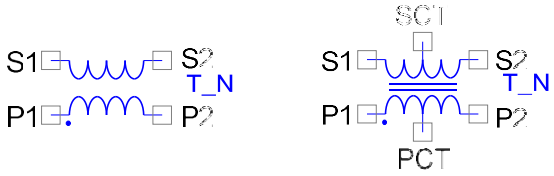
This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Voltage

This parameter sets the voltage of the thermocouple. Default voltage is **10mV**.

Transformer

Symbol Shape



Terminals

The terminals of the Transformer component are:

P1 – Primary winding terminal 1

P2 – Primary winding terminal 2

PCT – Primary winding center tap

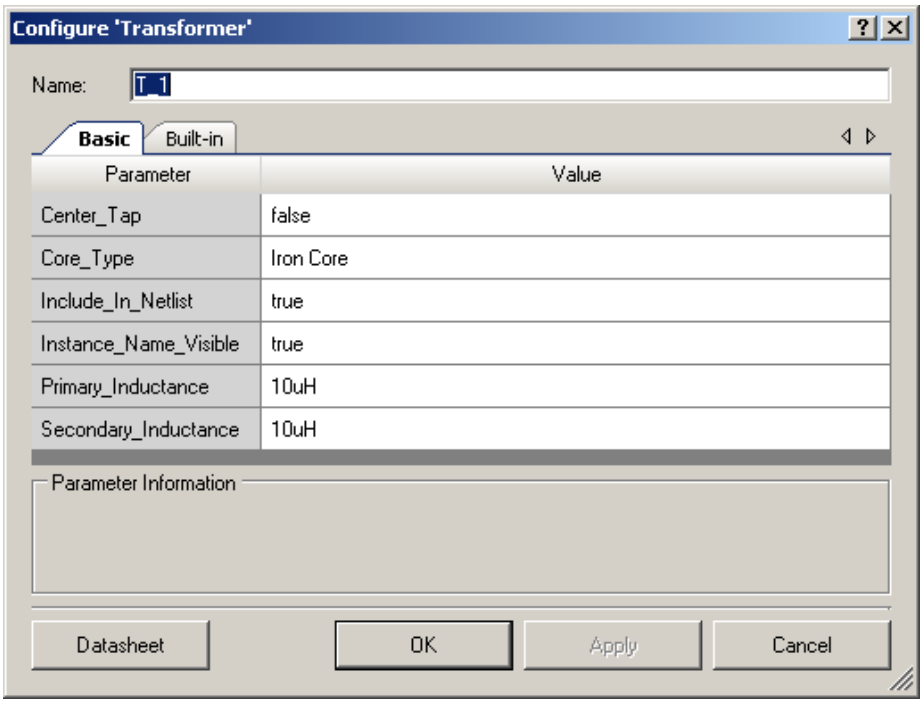
S1 – Secondary winding terminal 1

S2 – Secondary winding terminal 2

SCT – Secondary winding center tap

Component Parameters

Drag a Transformer component onto your design and double-click it to open the **Configure** dialog.



Center_Tap

This parameter sets whether a center tap is present in the transformer. If this parameter is set to **false** (default), a center tap is absent.

Core_Type

This parameter sets the type of the core used in the transformer, **Iron Core** or **Air Core**. **Iron Core** is the default setting.

Include_In_Netlist

This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Primary Inductance

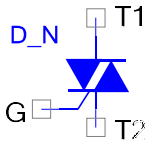
This parameter sets the inductance of the primary coil in the transformer. Default is **10uH**.

Secondary inductance

This parameter sets the inductance of the secondary coil in the transformer. Default is **10uH**.

Triac

Symbol Shape



Terminals

The terminals of the Triac component are:

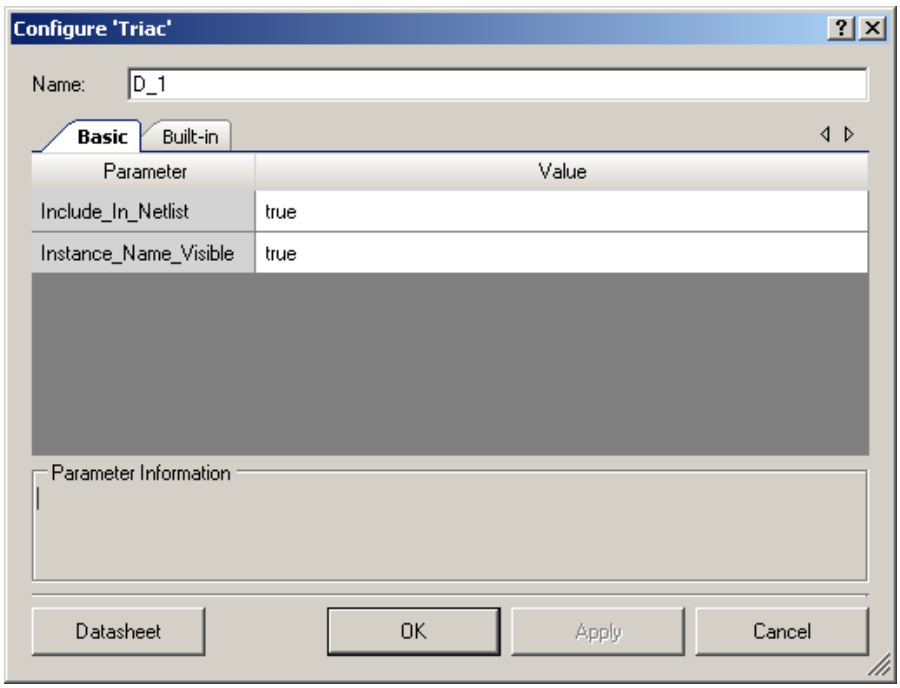
T1 – Terminal 1

T2 – Terminal 2

G – Gate terminal

Component Parameters

Drag a Triac component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Varactor

Symbol Shape



Terminals

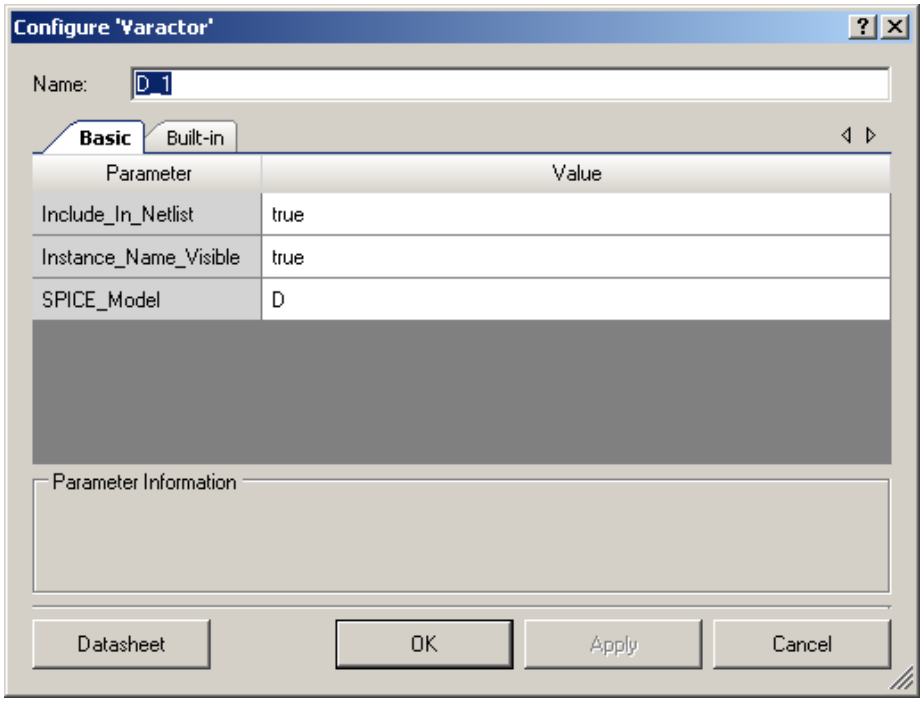
The terminals of the Varactor component are:

A – Anode terminal

K – Cathode terminal

Component Parameters

Drag a Varactor component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

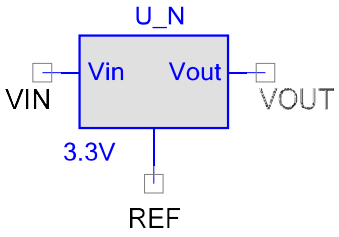
This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

SPICE_Model

This parameter is reserved for future use when the SPICE template is supported. The default string is **D**.

VREG

Symbol Shape



Terminals

The terminals of the Voltage Regulator component are:

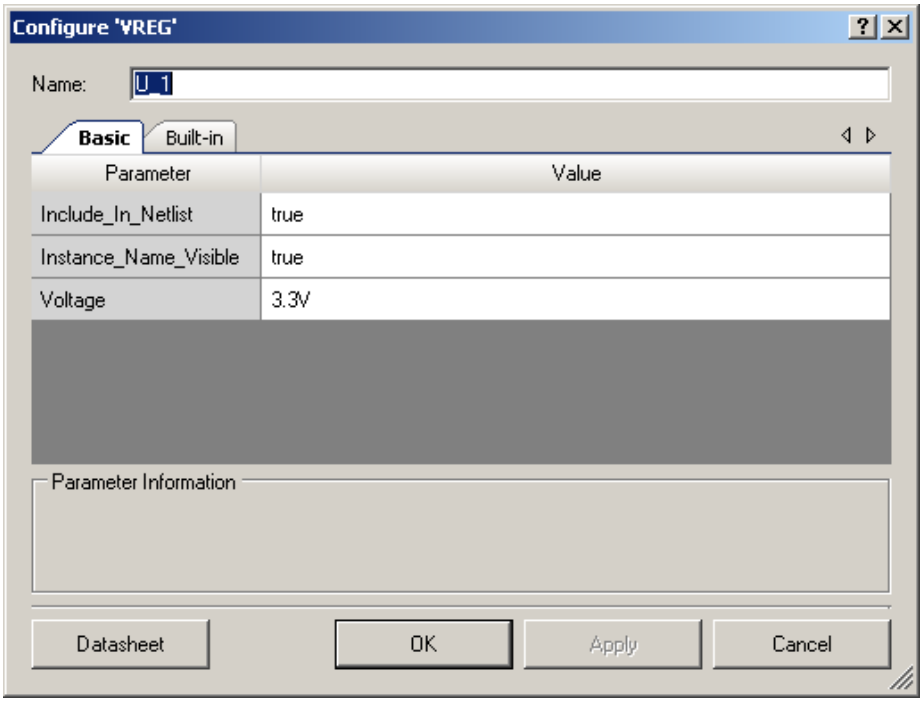
VIN – Input Voltage terminal

VOUT – Output Voltage terminal

REF – Reference terminal

Component Parameters

Drag a VREG component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

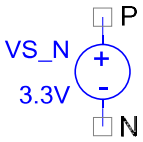
This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Voltage

This parameter sets the regulated output voltage of the Voltage Regulator. Default value is **3.3V**.

VSource

Symbol Shape



Terminals

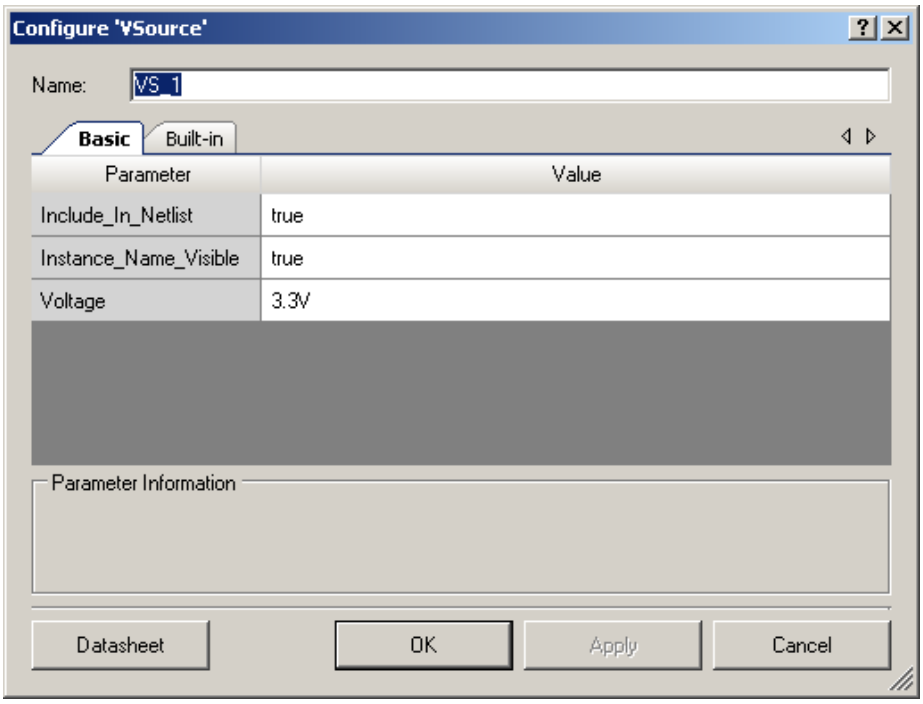
The terminals of the Voltage Source component are:

P – Positive terminal

N – Negative terminal

Component Parameters

Drag a Voltage Source component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

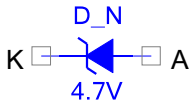
This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

Voltage

This parameter sets the output voltage of the voltage source. Default is **3.3V** DC.

Zener

Symbol Shape



Terminals

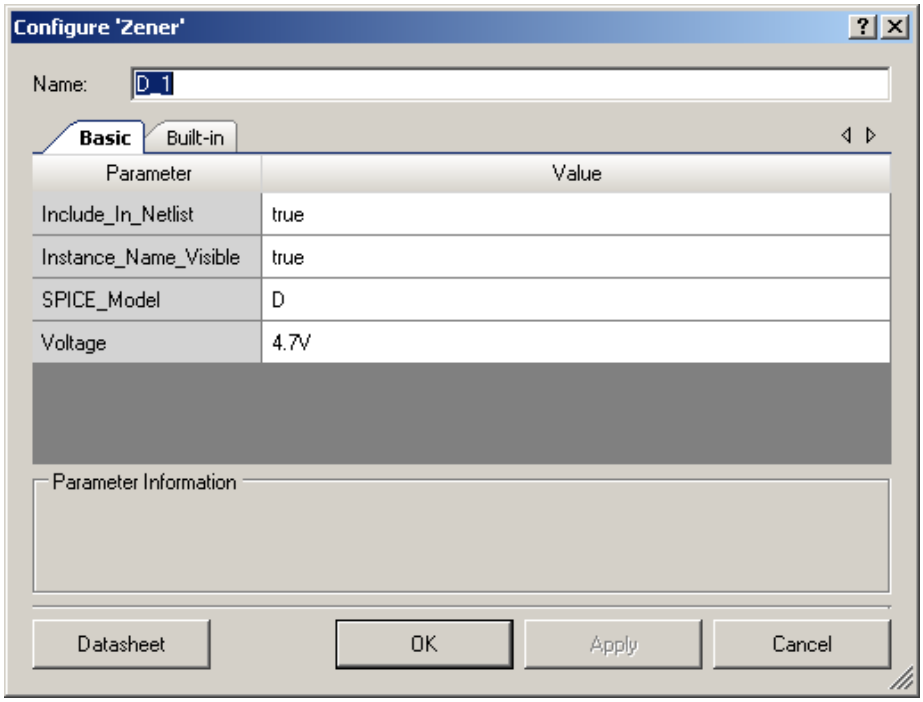
The terminals of the Zener Diode component are:

A – Anode terminal

K – Cathode terminal

Component Parameters

Drag a Zener component onto your design and double-click it to open the **Configure** dialog.



Include_In_Netlist

This parameter is reserved for future use when the SPICE template is supported.

Instance_Name_Visible

This parameter indicates whether the instance name is visible. If this parameter is set to **true** (default), the instance name is visible.

SPICE_Model

This parameter is reserved for future use when the SPICE template is supported. The default string is **D**.

Voltage

This parameter sets the voltage of the Zener used in the circuit. Default Zener voltage value is **4.7V**.

Component Changes

None

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