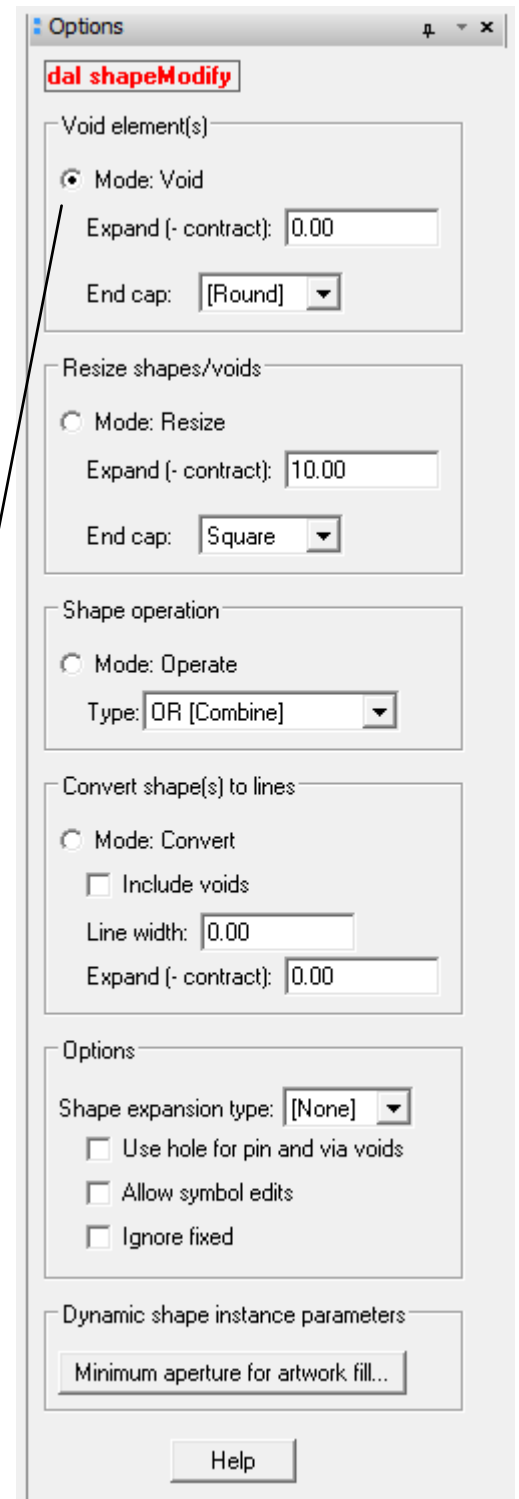
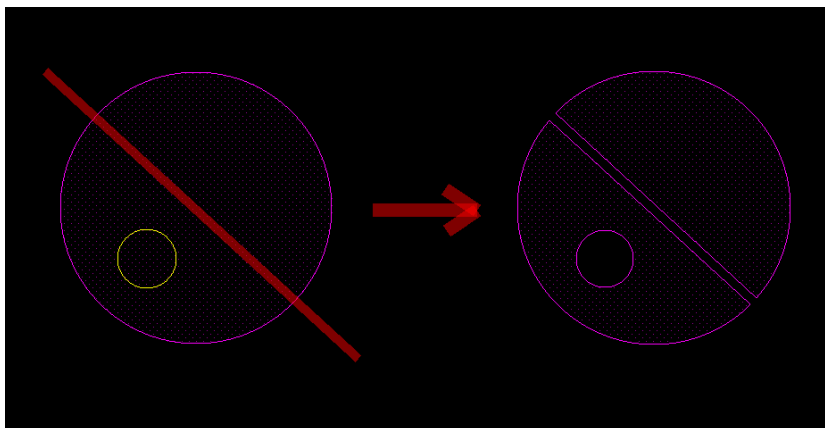


ShapeModify

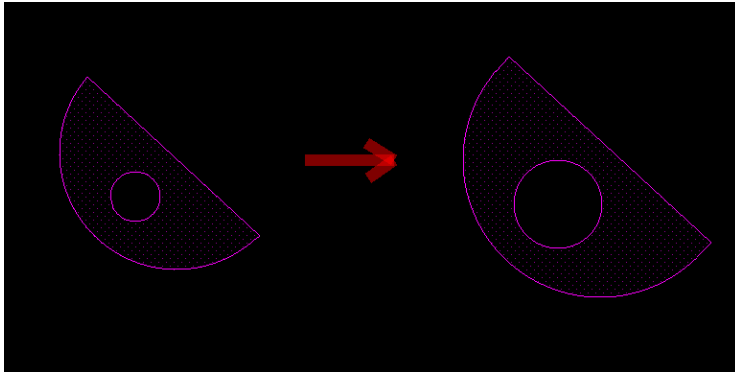
Multi feature shape utility that allows the voiding of any type object from static or dynamic shapes. Also allows the resizing of existing shapes and/or voids. Converts etch and non-etch shapes/voids to lines. Performs OR, AND, ANDNOT and XOR shape operations.

Features:

- Void clines, lines, pins, and vias from shapes.
- Resize (expand/contract shapes and/or voids in place).
- Combine multiple shapes together, find overlaps or subtract shapes from other shapes.
- Convert shapes and voids to lines.
- Works with etch and non-etch shapes.



Resize shapes/voids



Options

dal shapeModify

Void element(s)

Mode: Void

Expand (- contract):

End cap:

Resize shapes/voids

Mode: Resize

Expand (- contract):

End cap:

Shape operation

Mode: Operate

Type:

Convert shape(s) to lines

Mode: Convert

Include voids

Line width:

Expand (- contract):

Options

Shape expansion type:

Use hole for pin and via voids

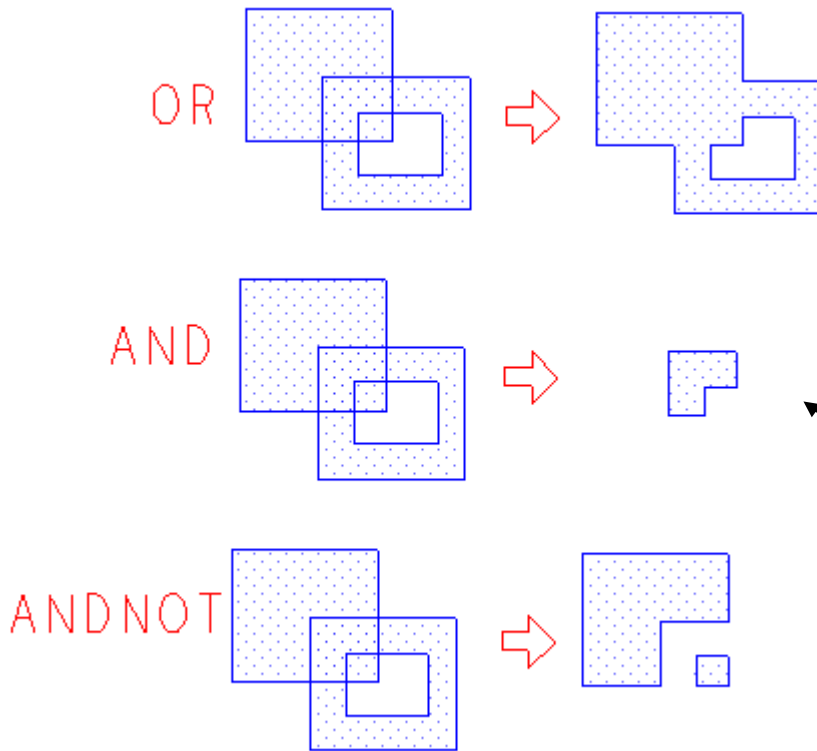
Allow symbol edits

Ignore fixed

Dynamic shape instance parameters

Help

Shape operation



OR [Combine]
AND [Overlaps]
ANDNOT [Subtract]

Options

dal shapeModify

Void element(s)

Mode: Void

Expand (- contract):

End cap:

Resize shapes/voids

Mode: Resize

Expand (- contract):

End cap:

Shape operation

Mode: Operate

Type:

Convert shape(s) to lines

Mode: Convert

Include voids

Line width:

Expand (- contract):

Options

Shape expansion type:

Use hole for pin and via voids

Allow symbol edits

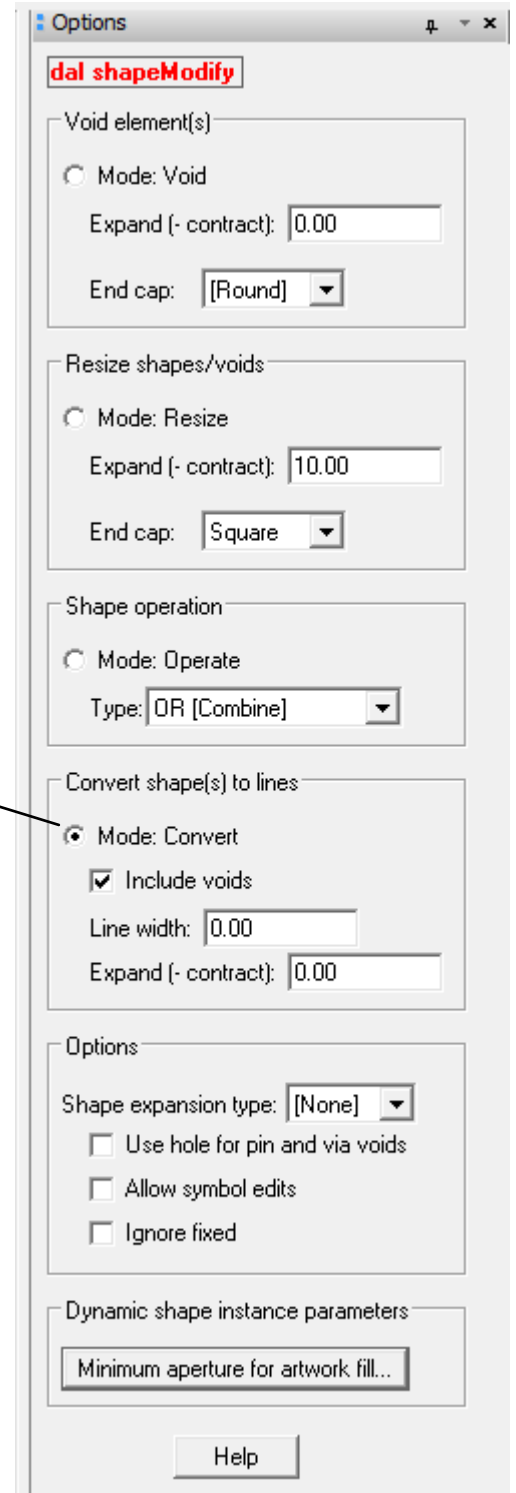
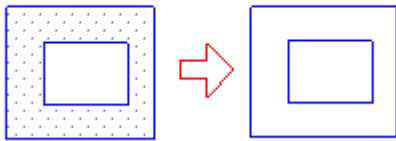
Ignore fixed

Dynamic shape instance parameters

Help


Convert shape(s) to lines

CONVERT TO LINES



Help

1.0_014 03-14-2015



Help

Command: dal shapeModify

Purpose: Multi feature shape utility that allows the voiding of any type object from static or dynamic shapes. Also allows the resizing of existing shapes and/or voids. Converts etch and non-etch shapes/voids to lines. Performs OR, AND, ANDNOT shape operations.

Void element(s)
Allows for element voiding of shapes by selection. For example taking a pin/via boundary out of a shape. Works with etch or non-etch shapes.
End cap: Controls the corner type of the voided elements. Supports round, square and octagon.

Resize shapes/voids
Expands or contracts shapes and voids in place.

Shape operation
Type: OR - Combines multiple shapes into one shape.
Type: AND - Finds the areas that overlap on multiple shapes.
Type: ANDNOT - Subtract shapes from other shapes. The second selected shapes are subtracted from the first selected.

Convert shape(s) to lines
Converts the outline of shapes to line segments.
Include voids - When checked the voids are included.
Line width: The shape outlines are created with this width.
Expand - If non zero the shape outline is expanded or contracted by this value.

Options
Shape exp type: This controls the expansion corner types for the outline of the resulting lines.
Use hole for pin and via voids - When checked uses the drill hole size for shape voids instead of the pad graphics.
Allow symbol edits - When checked allows for modification of shapes that are contained in symbols.
Ignore fixed - When checked fixed items can be modified.

Dynamic shape instance parameters
Minimum aperture for artwork fill - Changes the minimum aperture values on an entire layer at one time.

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Ok