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PCB

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PCB Cost USD\$4.90

Base Material	FR-4 TG130
No. of Layers	2 layers
PCB Dimensions	100mm * 100mm
PCB Quantity	10
No. of Different Designs	1
PCB Thickness	1.60mm
PCB Color	Green
Surface Finish	HASL
Minimum Solder Mask Dam	0.4mm†
Copper Weight	1oz.
Minimum Drill Hole Size	0.3mm
Trace Width / Spacing	6/6 mil
Blind or Buried Vias	No

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2 LAYER PROTOTYPE

- 3 PCBs
- \$5 per square inch
- Ships in under 12 days

4 LAYER PROTOTYPE

- 3 PCBs
- \$10 per square inch
- Ships in under 12 days

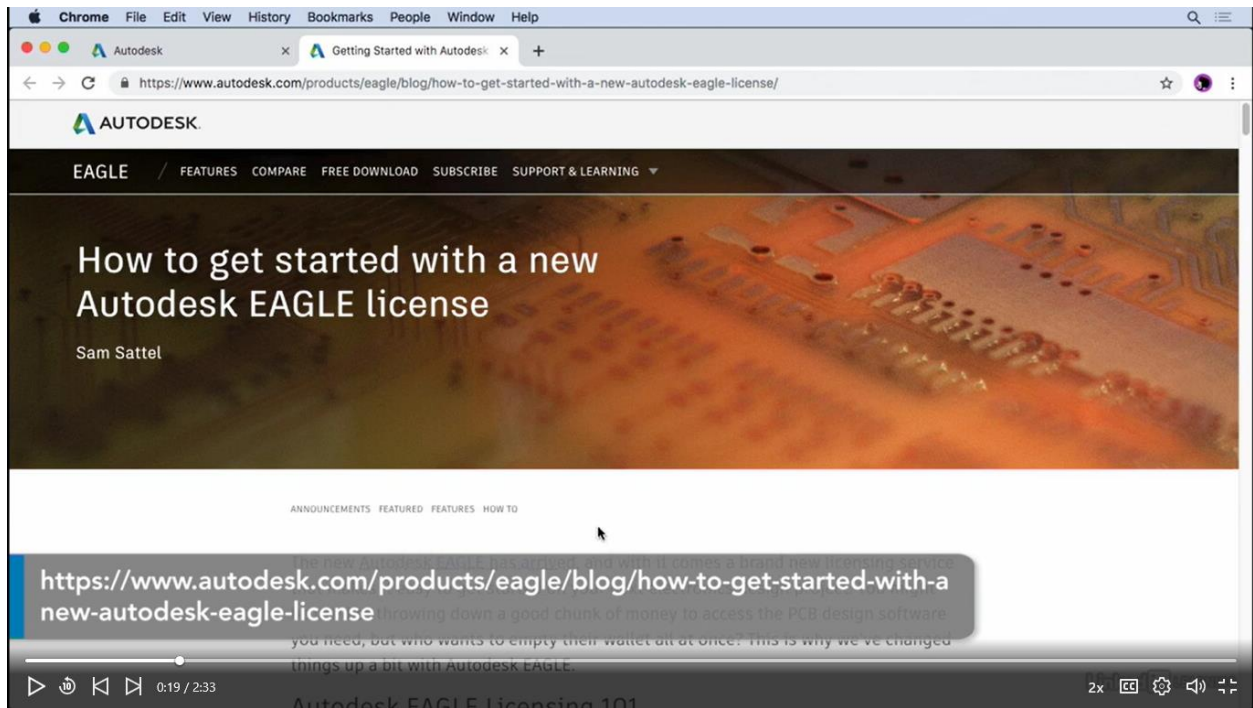
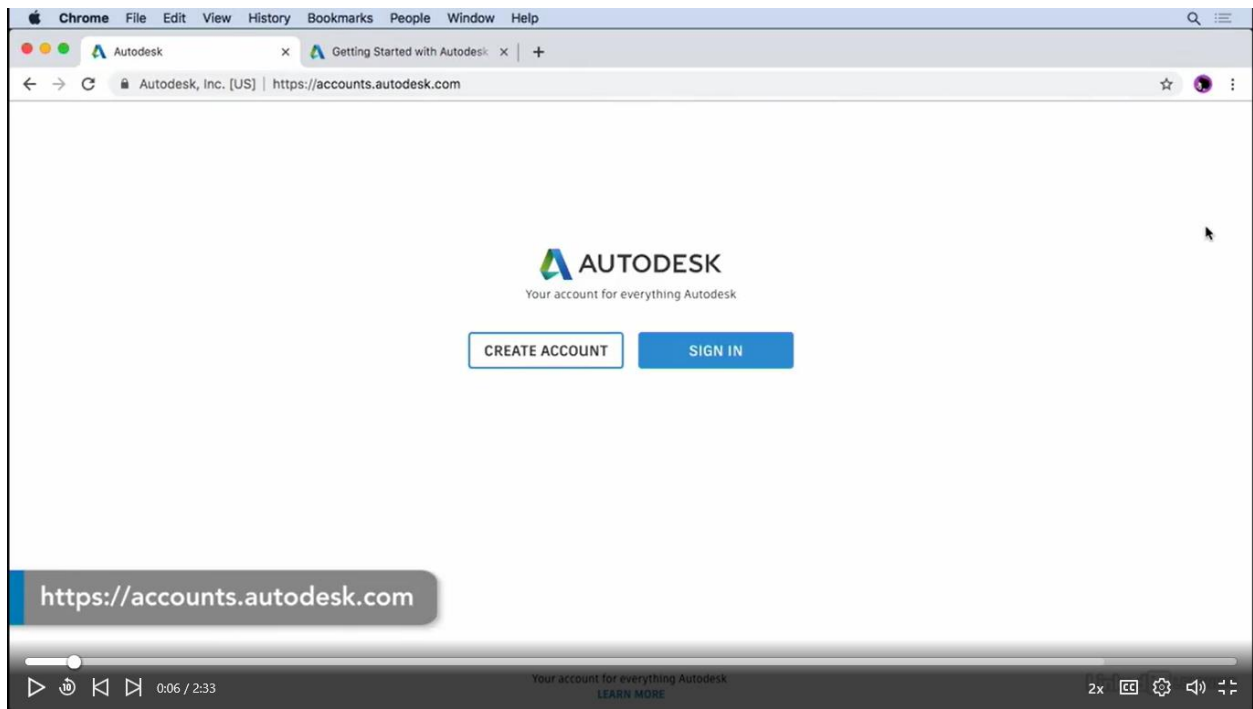
2 LAYER OPTIONS

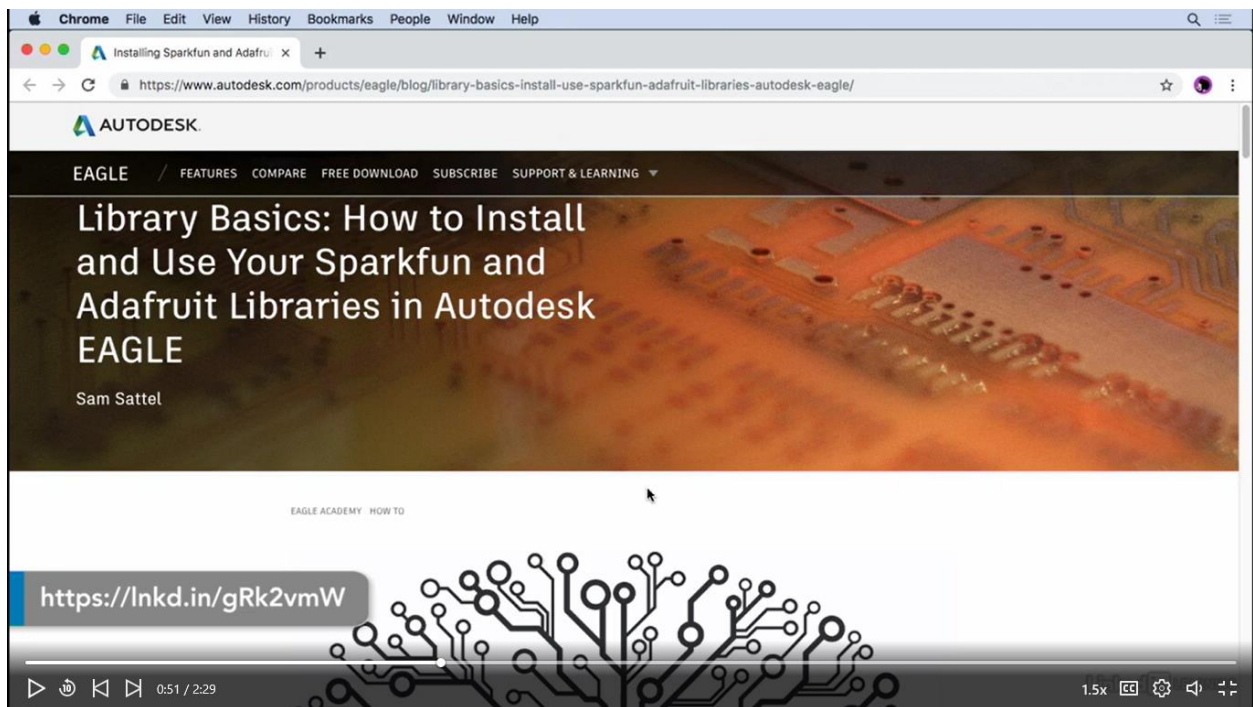
- Bulk Order
- Super Swift Fab
- 2oz Copper with
- 0.8mm FR4

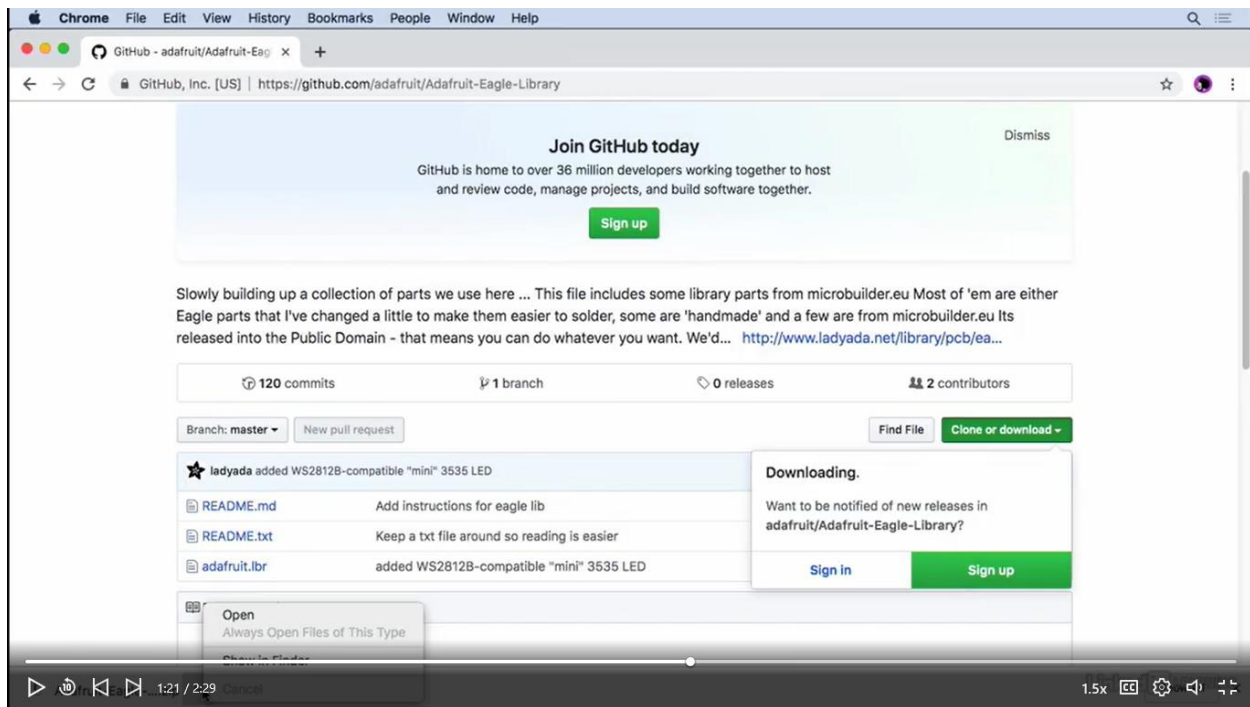
4 LAYER OPTIONS

- Bulk Order

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https://www.diodes.com/assets/Datasheets/AP1117_R21.pdf



AP1117

1A LOW DROPOUT POSITIVE ADJUSTABLE OR FIXED-MODE REGULATOR

Description

AP1117 is a low dropout positive adjustable or fixed-mode regulator with 1A output current capability. The product is voltage specifically designed to provide well-regulated supply for low IC applications such as high-speed bus termination and low current 3.3V logic supply. AP1117 is also well suited for other applications such as VGA cards. AP1117 is guaranteed to have lower than 1.4V dropout at full load current making it ideal to provide well-regulated outputs of 1.25 to 5.0 with 6.4V to 18V input supply. AP1117 is available in commercial temperature grade.

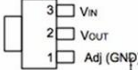
Features

- 1.4V Maximum Dropout at Full Load Current
- Fast Transient Response
- Output Current Limiting
- Built-in Thermal Shutdown
- Good Noise Rejection
- 3-Terminal Adjustable or Fixed 1.5V, 1.8V, 2.5V, 3.3V, 5.0V
- Lead Free Packages: SOT223-3L, TO252-3L, SOT89-3L, TO263-3L and TO220-3L
- SOT223-3L, TO252-3L, SOT89-3L, TO263-3L and TO220-3L Available in "Green" Molding Compound (No Br, Sb)
- Lead Free Finish/RoHS Compliant (Note 1)

Pin Assignments

SOT89-3L

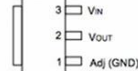
(Top View)



Tab is VOUT

SOT223-3L

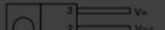
(Top View)



Tab is VOUT

TO220-3L

(Front View)



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50 for 5.0V

Package Outline Dimensions (All Dimensions in mm)

(1) Package Type: SOT223-3L

The technical drawing illustrates the SOT223-3L package dimensions. The top view shows a rectangular package with a width of 6.30/6.78 mm and a length of 2.9/3.15 mm. The side view shows a height of 3.3/3.7 mm and a base width of 4.6/5.0 mm. The detail view shows a lead width of 0.75 mm and a lead angle of 15°/10°. The drawing also includes a note for the lead pattern recommendation (G10mm) and a note for the lead length (0.75 mm).

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2x

