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Learn the fundamentals of alternating current (AC), impedance, motors, and transmission lines.

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Introduction to transistors, diodes, solid-state device theory, and semiconductor circuits.

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Discover binary number systems, Boolean algebra, digital circuits, computation, and memory.

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Collection of helpful resources: equations, resistor color codes, basic math, circuit simulation, and troubleshooting.

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Hands-on electronics experiments covering DC and AC circuits, analog and digital circuits, and semiconductors.

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Representative systems, system notation, connectivity, and system level troubleshooting.

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The fundamental concepts, terms, and units of measure common to all electronics.

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Learn about basic electronic components and technical notation.

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Understanding the application and principles of circuits.

- **Circuit Troubleshooting**

Strategies to diagnose malfunctioning systems and identify specific defects in circuits.

- **Alternating Current**

The Importance of alternating current in electrical and electronic systems.

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- **Basic Electricity**

Voltage, current, resistance and other basic concepts of electricity.

- **DC Electric Circuits**

The unidirectional flow of an electric charge and its role in DC circuits.

- **AC Electric Circuits**

The fundamental relationship between voltage, current and resistance in AC Circuits.

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Analysis of complex working procedures of AC and DC circuits.

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Diodes, transistors, rectifiers, thyristors and more.

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Circuits dealing with signals free to vary from zero to full power supply voltage.

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General Electronics Chat

LTspice model of a MOSFET gate driver desired

- 
- 
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LTspice model of a MOSFET gate driver desired

 DickCappels ·  Apr 20, 2020

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Thread Starter

DickCappels

Joined Aug 21, 2008 10,104

Apr 20, 2020

#1

I need an LTspice model for a low-side non-inverting N-channel MOSFET driver. Power supply 12V, Drive current -a up to 5 amps. Input 5V CMOS compatible. This is not critical because it will only be used in early simulation. Can anybody make a recommendation?

My thanks for any help given.

 [Like](#)  [Reply](#)

Scroll to continue with content

**Alec_t**

Joined Sep 17, 2013 14,009

Apr 20, 2020

#2

There are a few 2A models. Don't know of anything for 5A.

☐ [Like](#) ☐ [Reply](#)

Thread Starter

DickCappels

Joined Aug 21, 2008 10,104

Apr 20, 2020

#3

That should be enough to get the project going again! Where can I find them?

☐ [Like](#) ☐ [Reply](#)**E****eetech00**

Joined Jun 8, 2013 3,653

Apr 20, 2020

#4

[DickCappels said:](#) 

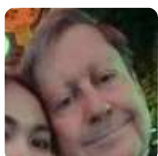
That should be enough to get the project going again! Where can I find them?

Hi

Will a [UCC27519](#) work for you?

If not, which do you need?

eT

☐ [Like](#) ☐ [Reply](#)

Thread Starter

DickCappels

Joined Aug 21, 2008 10,104

Apr 20, 2020

#5

Yes, that one would be fine. Do you know where I can find an LTspice model?

☐ [Like](#) ☐ [Reply](#)



ronsimpson

Joined Oct 7, 2019 2,796

Apr 20, 2020

#6

Hope this works.

[IR2184 IR21xx](#)

Ron S.

☐ [Like](#) ☐ [Reply](#)

B

Bordodynov

Joined May 20, 2015 3,116

Apr 21, 2020

#7

Take my collection of models, it has a lot of gate drivers.



<http://bordodynov.ltwiki.org/>

☐ Circleplus7 and DickCappels

☐ [Like](#) ☐ [Reply](#)



Alec_t

Joined Sep 17, 2013 14,009

Apr 21, 2020

#8

[DickCappels said:](#)

Where can I find them?

International Rectifier have an [IR21xx.lib](#) for download. Looks like Ron has a link to it in post #6.

☐ DickCappels

[Like](#) [Reply](#)


E

eetech00

Joined Jun 8, 2013 3,653

Apr 21, 2020

#9

DickCappels said: 

Yes, that one would be fine. Do you know where I can find an LTspice model?

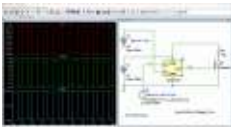
Hi

The spice model is attached.

Please note the original model was downloaded from the TI website. I corrected an error, modifying it to work with LTspice.

A symbol is included.

eT



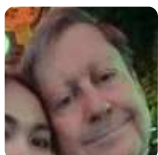
Attachments

**UCC27519_TRAN...**

2.7 KB

Views: 195

Last edited: Apr 22, 2020

[Bordodynov and ronsimpson](#)[Like](#) [Reply](#)

Thread Starter

DickCappels

Joined Aug 21, 2008 10,104

Apr 22, 2020

#10

eetech00 said: 

Hi

The spice model is attached.

(some of the message omitted for clarity)

Thank you.

Where is it attached?

 Bordodyn timer


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E

eetech00

Joined Jun 8, 2013 3,653
Apr 22, 2020

#11

DickCappels said: 

Thank you.

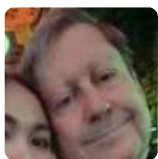
Where is it attached?

Sorry bout' that..

Uploaded post #9.

 Bordodyn timer

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Thread Starter

DickCappels

Joined Aug 21, 2008 10,104
Apr 22, 2020

#12

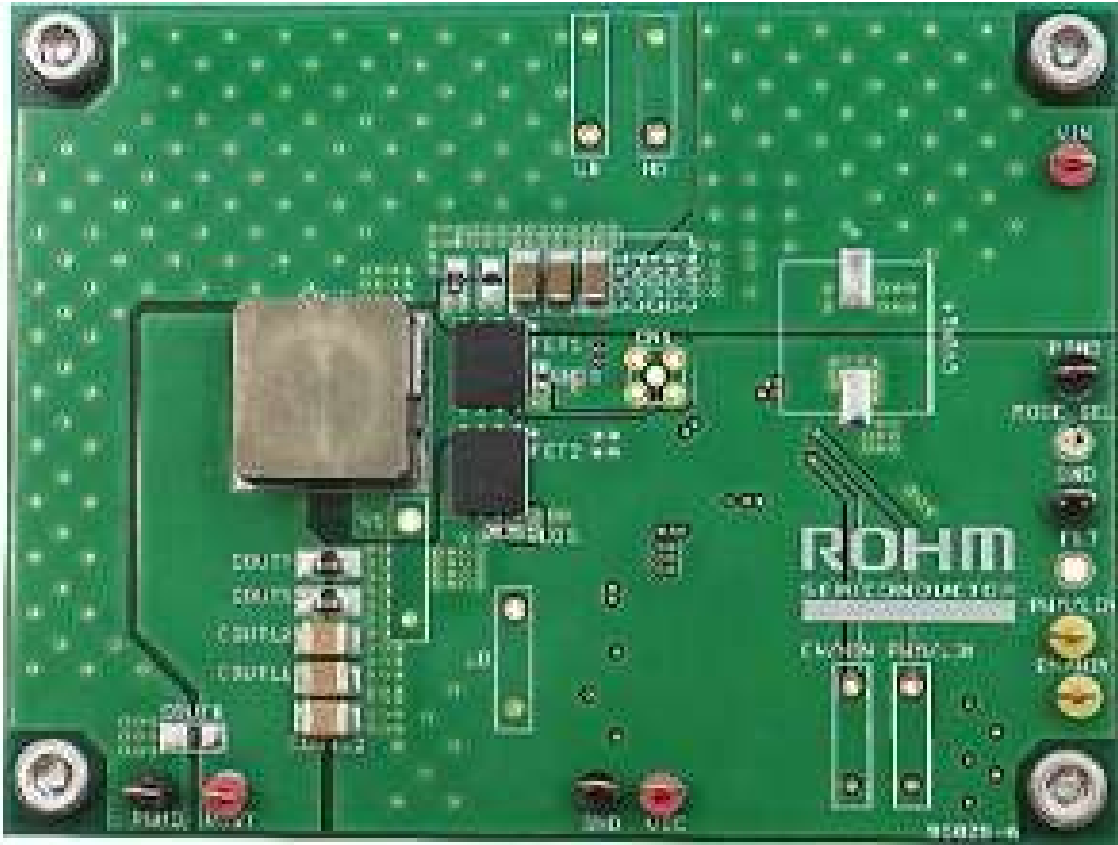
Thank you. If you had not pointed it out I would not have noticed it.

Thank you all for your help! I have downloaded all of these and will try them out.

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Dual Gate MOSFET Model For
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Jan 11, 2017



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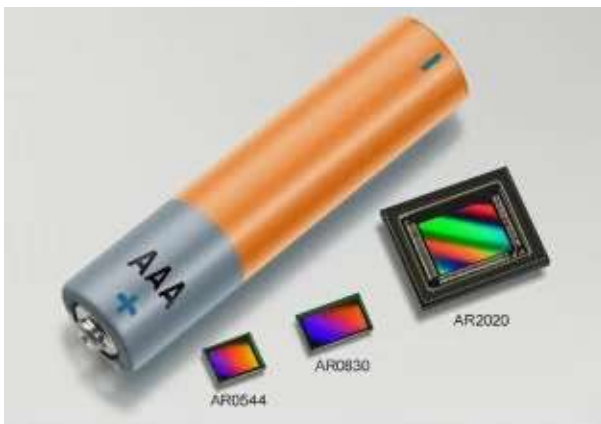
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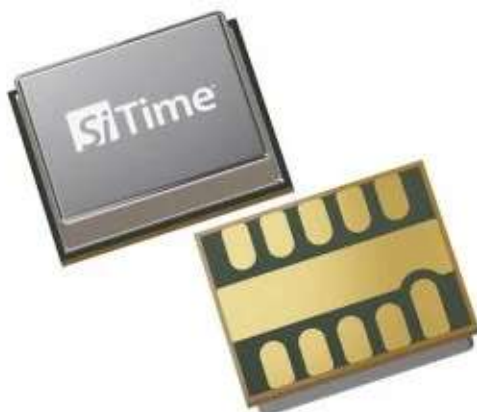
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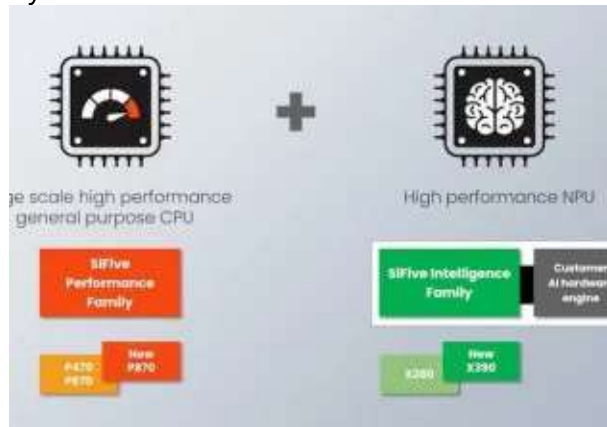
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”

Never tell people how to do things. Tell them what to do and they will surprise you with their ingenuity.”

- George Patton

