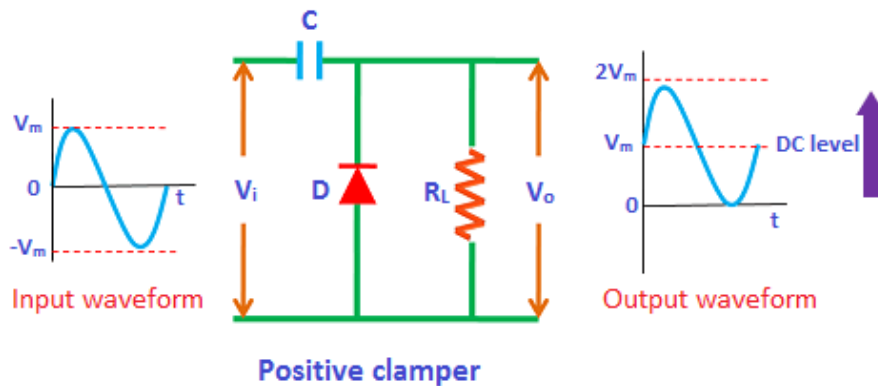


How does the diode clamper circuit clamp

Asked 1 year, 6 months ago Active 1 year, 6 months ago Viewed 351 times



If you look at the standard Clamper circuit(using diode and capacitor), we a load taking across diode(resistor in parallel to R), but what makes no sense is, if R and diode D in parallel, then aren't there points where the load voltage(V_{out}) just gets clamped to diode voltage of apps 0.7 V?



Physics and Radio-Electronics

Also, how would I clamp a regular(0-Vcc) square wave to a (-Vcc to +Vcc) square wave using opamps.

Reference

diodes

level-shifting

edited Apr 14 '18 at 23:10



Dave Tweed ♦

140k 11 179 311

asked Apr 14 '18 at 17:52



Mr. Johnny Doe

8 3

2 It explains fully in your link how this worksdid you read the explanation? – Jack Creasey Apr 14 '18 at 18:39

it makes no sense to me somehow – Mr. Johnny Doe Apr 15 '18 at 11:00

1 Answer



It actually gets clamped to around -0.7V from the perspective of the load. Perhaps a simulation will make it clearer to you what is happening.

[Falstad Simulation](#)

For your second question you would AC couple the square wave into the op amp biased to ground and provide a gain of 2. Sim link below.

[Falstad Simulation](#)

