

Re: Base Bias Constant Voltage Source

Source: <http://sci.tech--archive.net/Archive/sci.electronics.design/2006-01/msg01976.html>

- *From:* "Mark" <makolber@xxxxxxxxx>
 - *Date:* 10 Jan 2006 18:47:25 -0800
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dgc wrote:

> I guess the bottom line is that the only thing that should be acting on the
> BE junction is the signal. If the signal current causes even small changes
> in the bias voltage the transistor output will not be a true representation
> of the
> amplified signal. Is that basically it?

you are probably looking at a Class AB or C amplifier design. When the RF input is large the BE junction will rectify and pull current. If you want to keep the xistor at a fixed bias setting the base voltage should be held steady despite the change in base current that occurs due to the changing RF drive...

This is less of a problem in class A amplifiers that do not pull base current because the input signal is small and does not cause rectification in the BE junction.

Mark

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• *References:*

- ◆ *Base Bias Constant Voltage Source*
 - ◇ *From:* dgc
- ◆ *Re: Base Bias Constant Voltage Source*
 - ◇ *From:* dgc
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