



## Re: Transistors

Yes, I seem to remember that was discussed on another thread, right John?

Yup. THS3062, practically a unique opamp, blinding fast with  $\pm 15$  supplies. But if it's amplifying a sine wave at, say, 20 volts p-p out, and the frequency goes up to roughly 12 MHz, it crashes, pulls tons of power, gets red hot, and phase inverts! If you drop the input signal way down, it recovers!

Well, John!!!! the datasheet specifies input common mode range as  $\pm 13.9V$  MAX.  
Page 3 of ths3062.pdf.  
It is a video amp :-)

We're running these at gains in the 3 to 5 range, and it does this working inverting or non-inverting, loaded and unloaded, so it's not a common-mode issue. And at 12 MHz, we're not even slewing a volt per nanosecond yet.

It crashes and phase inverts in either config! It made a nasty blister on me poor finger, it did! But the effect doesn't seem to be thermal, in that freezing it hard doesn't affect the frequency trip threshold much.

You'd think that TI would find something this exotic to be interesting.

John