

Re: BUZ11 Itspice model

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- *From:* legg <legg@xxxxxxxxxxxxxxxxxx>
 - *Date:* Tue, 11 Mar 2008 10:07:49 -0500
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On Tue, 11 Mar 2008 08:09:21 -0400, maxfoo <maxfoo@xxxxxxxxxx> wrote:

Do these parameters look right for a buz11 mosfet?

LTspice model

```
.model BUZ11 VDMOS(Rg=3 Rd=5m Rs=1m Vto=2.1 Kp=63 Cgdmax=2n Cgdmin=1n  
Cgs=1.5n  
Cjo=1n Is=2.3p Rb=6m mfg=Fairchild Vds=50 Ron=40m Qg=27n)
```

If Cgd is intended to represent gate to drain capacitance or Crss, it should run between 250pF and 400pF. This didn't change for 'A' or 'S' variants. BUZ11 was never specified for Qg – if this were calculated with a 10V gate swing and a 50V drain change, Qg is closer to 33nC (as Cgs sees a 60V change during the switching operation).

RL

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