

DeckBuild - 5.0.10.R - C:/Users/sambh/OneDrive/Desktop/Simulation\_Gain\_Dual\_Junction\_Solar\_Cell - gainp\_dual\_junction.txt

File Edit View Run Tools Commands Help

Variables history

- Jsc 2.064002338e-10 (# 107)
- JscmAcM2 20.64 (# 108)
- Voc 2.43654639974617 (# 109)
- Pm 4.47015199232e-10 (# 110)
- Vm 2.24000092131477 (# 111)
- Im 1.99560267857143e-10 (# 112)
- FF 88.8867599202647 (# 113)
- Opt\_int 0.1380488586 (# 114)
- Eff 32.3808937406283 (# 115)

Outputs

Filter: \*.str, \*.log Default Filter

- solarex03.str
- solarex03\_1.log
- solarex03\_15.log
- GainP\_SJSC.str
- inp.str
- GainPSJ.log

Resource usage

691.0 MB 643.9 MB Memory	0 bytes/s IO read	0 bytes/s IO write
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Deck

```

tonyplot GainPSJ.log
tonyplot solarex03_1.log

bl=1

log off

outf=EQEGainP.log
solv bl=1 beam=1 lambda=0.10 wstep=0.025 wfinal=0.9

extract init inf="EQEGainP.log"
extract name="EQE" curve(select."optical wavelength", \
    abs(i."cathode")/(select."source photo current")) outf="EQEGainP.dat"

extract name="IQE" curve(select."optical wavelength", \
    abs(i."cathode")/(select."Available photo current")) outf="IQEGainP.dat"

tonyplot EQEGainP.dat
tonyplot IQEGainP.dat
tonyplot EQEGainP.log

quit

Opt_int=0.138049
EXTRACT> extract name="Eff" (le8*4.47015e-010/0.138049)*100
Eff=32.3809
EXTRACT>
EXTRACT> ###_PLOTTING_###
EXTRACT>
tonyplot GainPSJ.log
tonyplot solarex03_1.log
EXTRACT>
EXTRACT> quit
bl=1
** ERROR # 1 **
* Invalid card type specification *
=> bl
ATLAS>
```

Output  Scroll to bottom  Clear

Line: 109 Column: 68 Monitor string triggered at line 122. Simulator stopped Size of generated files : 488.4 KB Free space : 119.8 GB DeckBuild 5.0.10.R Copyright © 1984 - 2025 silvaco

### Variables history

 <b>JscmAcM2</b>	<b>20.64</b>	(# 108)
 <b>Voc</b>	<b>2.43654639974617</b>	(# 109)
 <b>Pm</b>	<b>4.47015199232e-10</b>	(# 110)
 <b>Vm</b>	<b>2.24000092131477</b>	(# 111)
 <b>Im</b>	<b>1.99560267857143e-10</b>	(# 112)
 <b>FF</b>	<b>88.8867599202647</b>	(# 113)
 <b>Opt_int</b>	<b>0.1380488586</b>	(# 114)
 <b>Eff</b>	<b>32.3808937406283</b>	(# 115)



