

Device Modeling Report

COMPONENTS: Solar Cell
PART NUMBER: NE-53K1R
MANUFACTURER: SHARP
REMARK:Pmax=52.5(W)
REPORT of Solar Cells (LTspice IV)



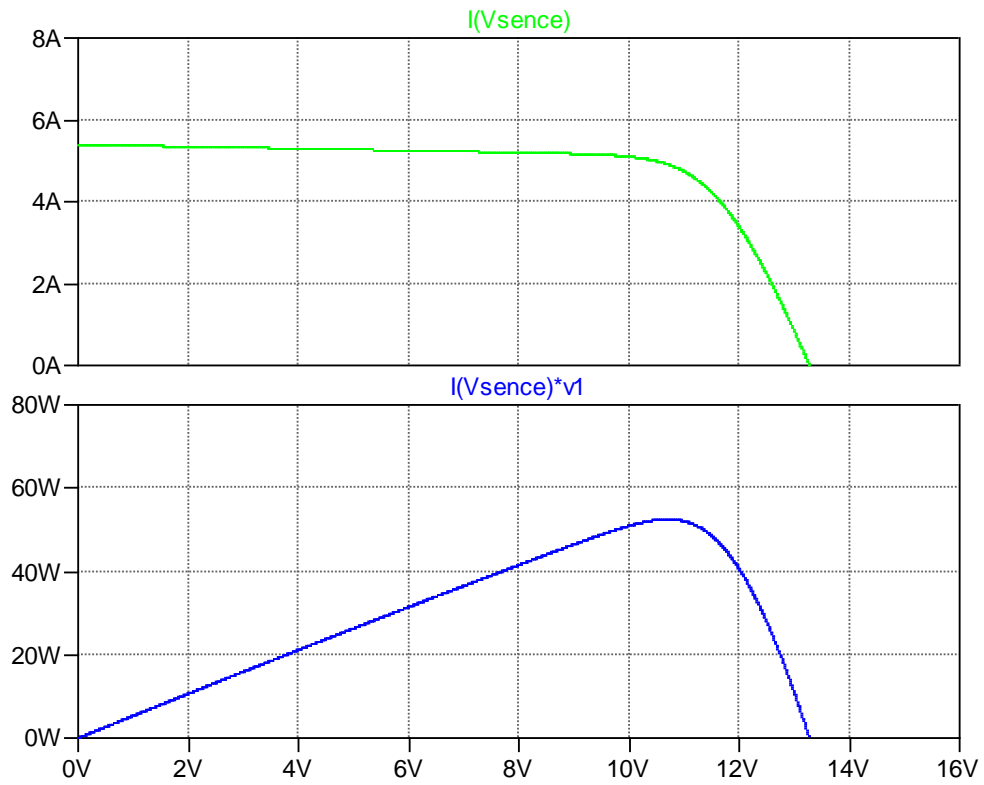
Bee Technologies Inc.

Circuit Configuration

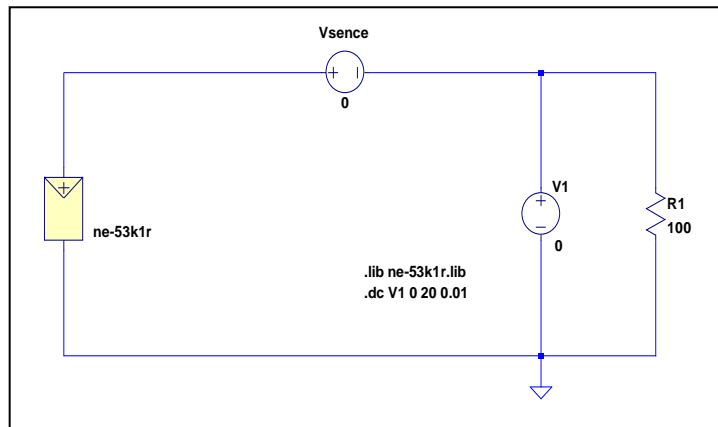


Output Characteristic

Circuit Simulation Result



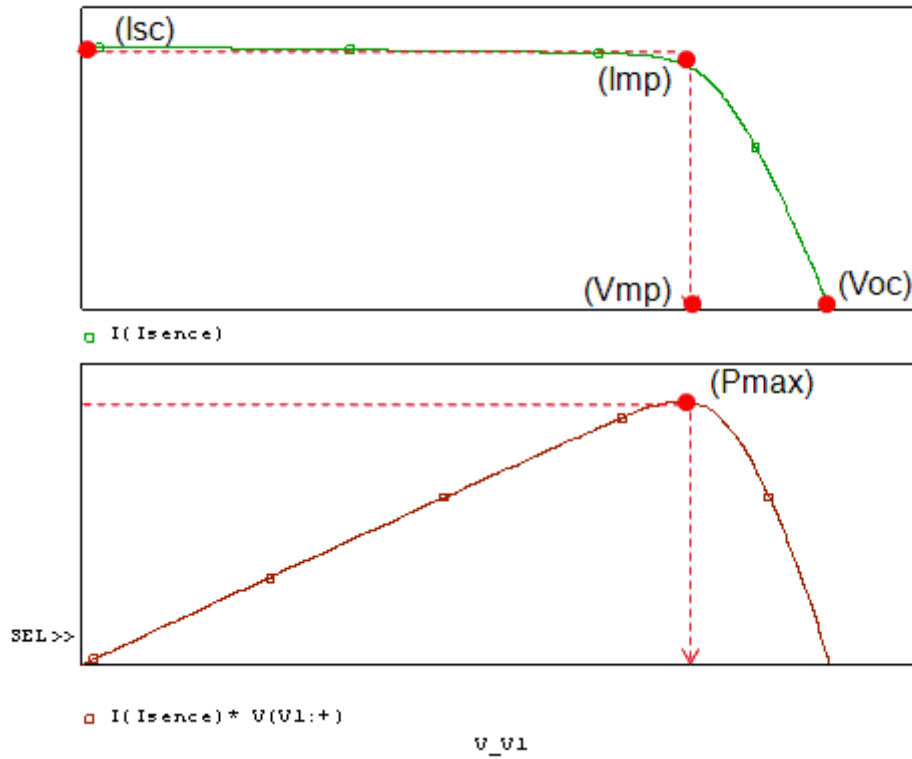
Simulation Circuit



Output Characteristic

Reference

Circuit Simulation Result



Data Table

Symbol	Measurement	Simulation	%Error
Pmax	52.5000	52.5190	0.0362
Vmp	10.7000	10.6980	-0.0187
Imp	4.9100	4.9092	-0.0163
Voc	13.3000	13.2660	-0.2556
Isc	5.4000	5.3931	-0.1278

Data Information

No. NE-53K1R	
Maximum output (Pmax)	52.5000
Maximum power voltage (Vmp)	10.7000
Maximum power current (Imp)	4.9100
Open circuit voltage (Voc)	13.3000
Short circuit current (Isc)	5.4000