

Device Modeling Report

COMPONENTS: Solar Cell
PART NUMBER: SX 170B
MUNUFACTURER: bp Solar
REMARK:Pmax=170(W)
REPORT of SolarCells (LTspice IV)



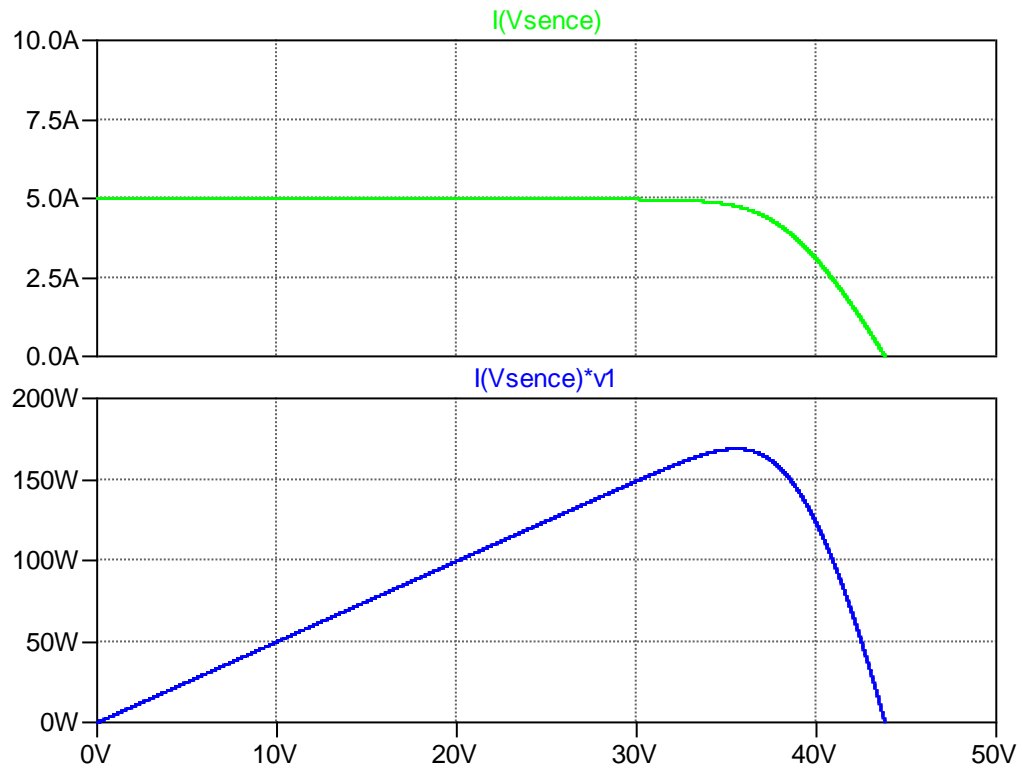
Bee Technologies Inc.

Circuit Configuration

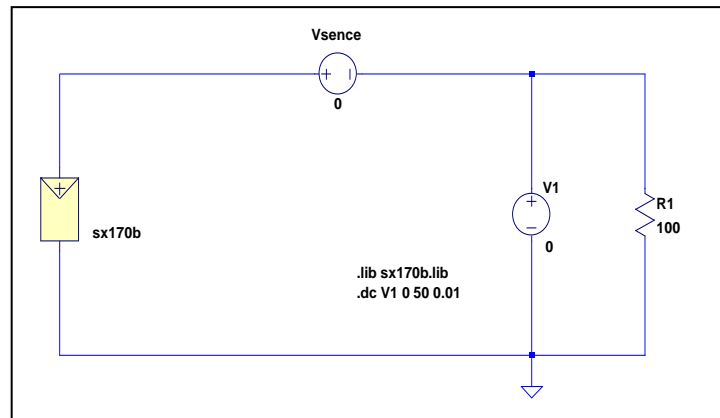


Output Characteristic

Circuit Simulation Result



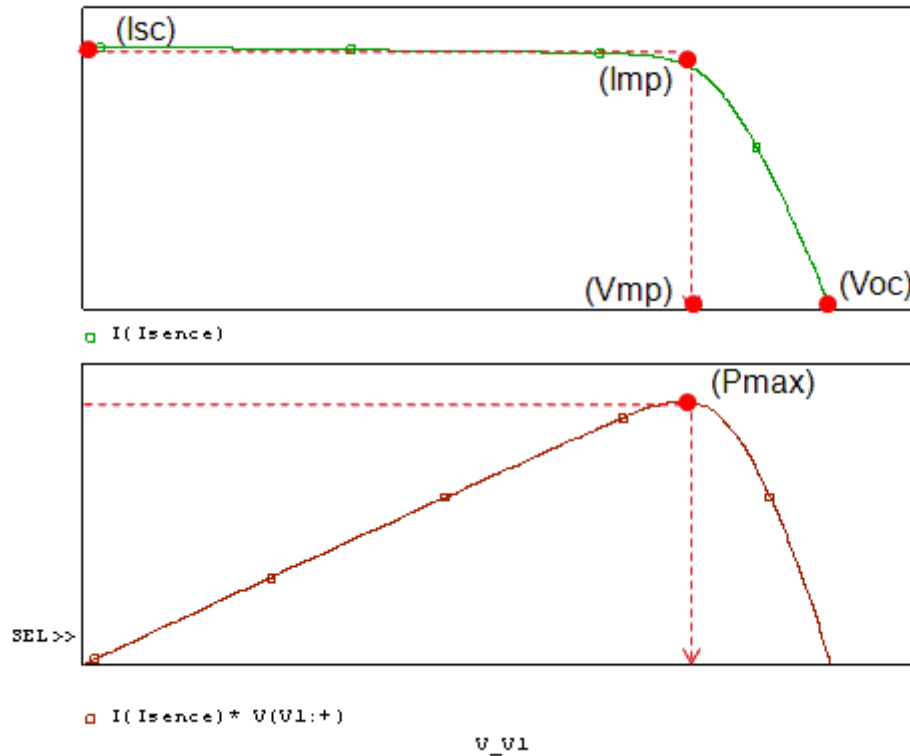
Simulation Circuit



Output Characteristic

Reference

Circuit Simulation Result



Data Table

Symbol	Measurement	Simulation	%Error
Isc	5.0000	4.9992	-0.016
Voc	44.2000	43.7870	-0.934
Imp	4.8000	4.7574	-0.888
Vmp	35.4000	35.5000	0.282
Pmax(Imp*Vmp)	169.9200	168.8870	-0.608

Data Information

No. SX 170B	
Maximum power (Pmax)³	170W
Voltage at Pmax (Vmp)	35.4V
Current at Pmax (Imp)	4.8A
Short-circuit current (Isc)	5.0A
Open-circuit voltage (Voc)	44.2V