

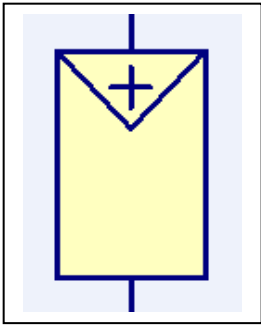
# Device Modeling Report

COMPONENTS: Solar Cell  
PART NUMBER: FPV2045SFM1  
MANUFACTURER: Fuji Electric Systems  
REMARK: Pmax=45(W)  
REPORT: SolarCells (LTspice IV)



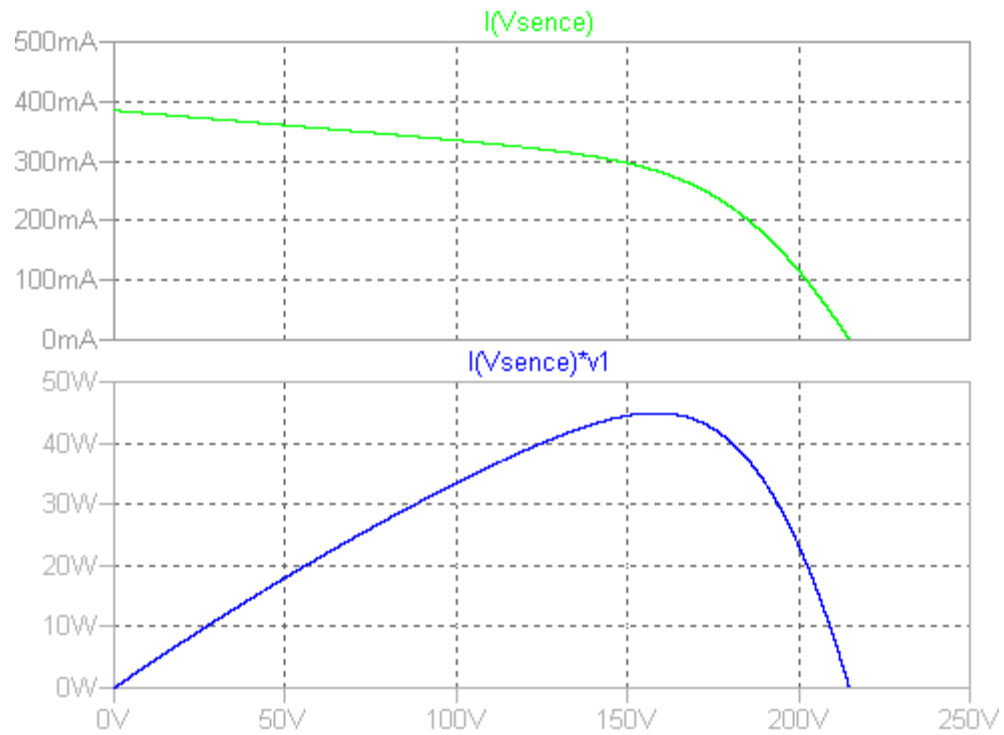
**Bee Technologies Inc.**

## Circuit Configuration

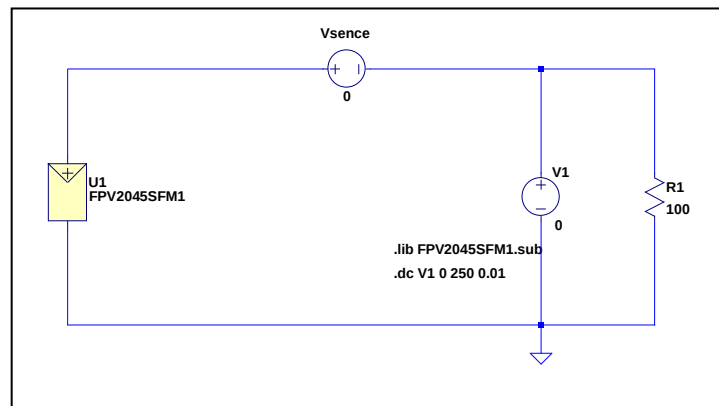


## Output Characteristic

### Circuit Simulation Result



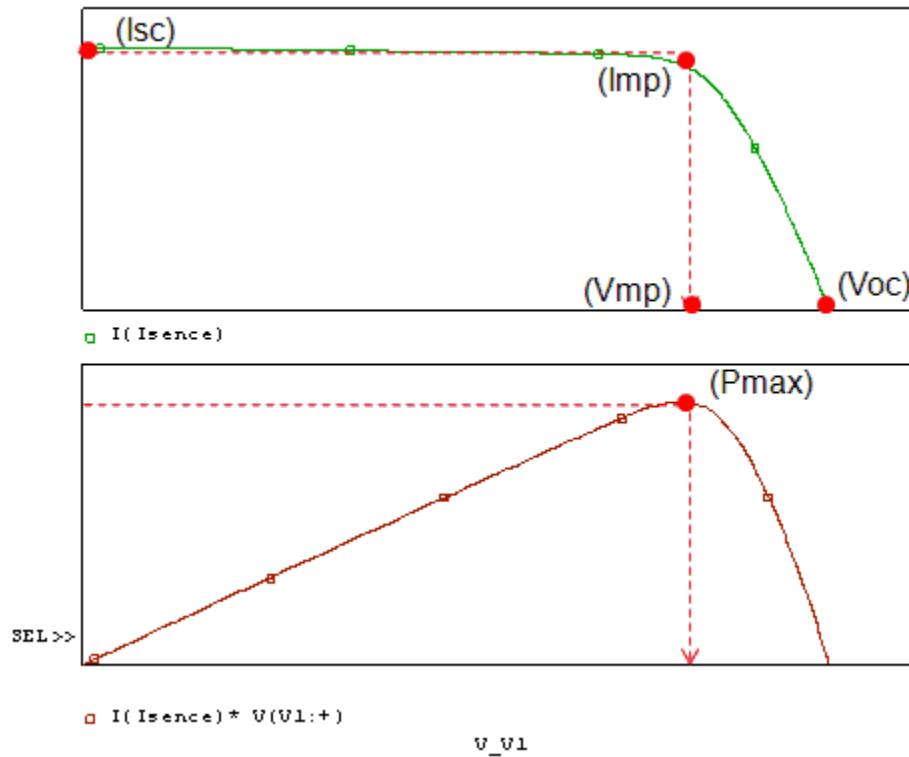
### Simulation Circuit



## Output Characteristic

## Reference

### Circuit Simulation Result



### Data Table

| Symbol | Measurement | Simulation | %Error |
|--------|-------------|------------|--------|
| Pmax   | 45.000      | 44.924     | -0.169 |
| Vmp    | 158.500     | 158.300    | -0.126 |
| Imp    | 0.2840      | 0.2838     | -0.075 |
| Voc    | 215.000     | 214.803    | -0.092 |
| Isc    | 0.389       | 0.385      | -1.028 |

## Data Information

|                             |         |
|-----------------------------|---------|
| No. FPV2045SFM1             |         |
| Maximum output (Pmax)       | 45.000  |
| Maximum power voltage (Vmp) | 158.500 |
| Maximum power current (Imp) | 0.284   |
| Open circuit voltage (Voc)  | 215.000 |
| Short circuit current (Isc) | 0.389   |