

# Device Modeling Report

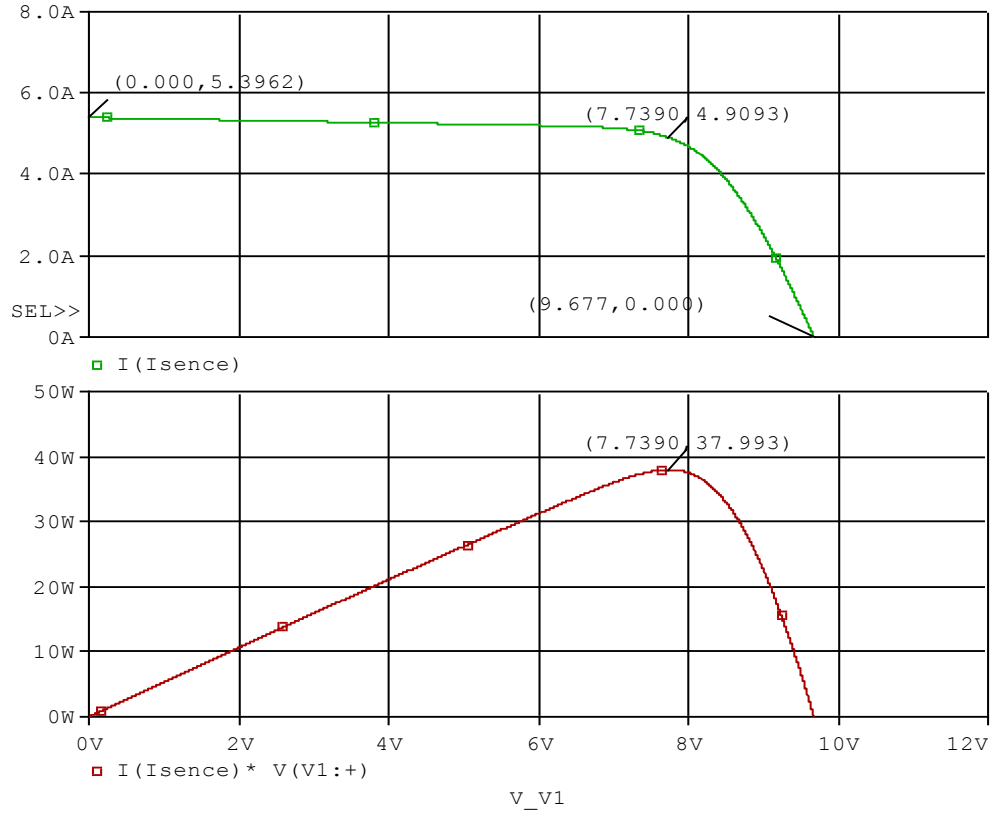
COMPONENTS: Solar Cell  
PART NUMBER: NE-38K1R  
MUNUFACTURER: SHARP  
REMARK: Pmax=38(W)



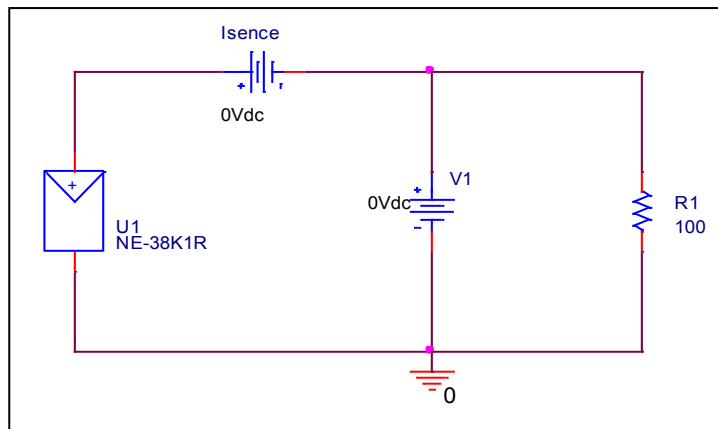
**Bee Technologies Inc.**

# Output Characteristic

## Circuit Simulation Result



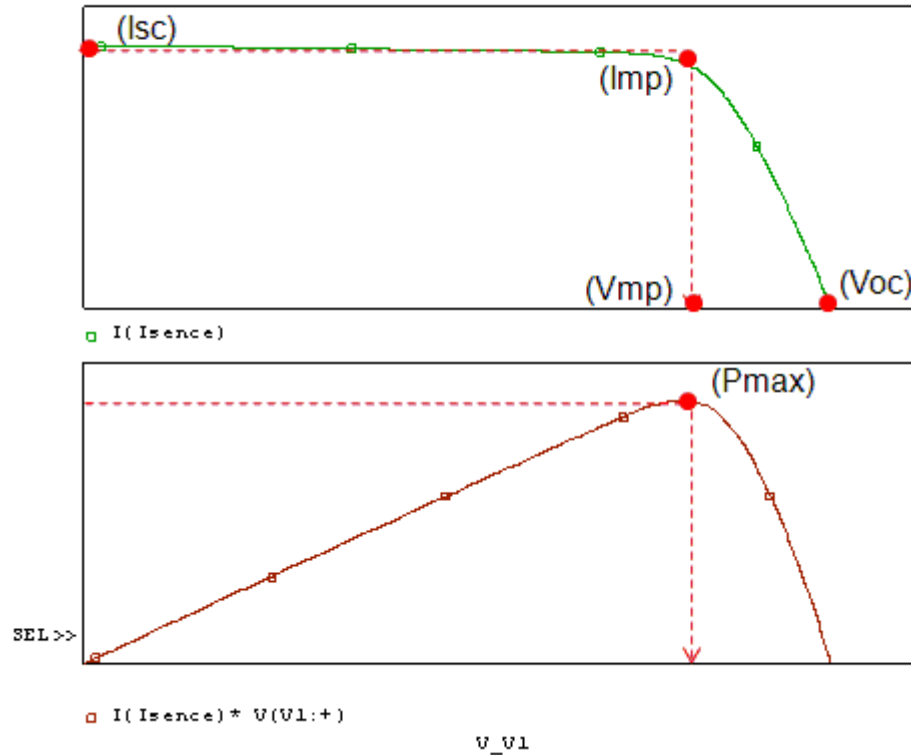
## Simulation Circuit



## Output Characteristic

## Reference

### Circuit Simulation Result



### Data Table

| Symbol | Measurement | Simulation | %Error  |
|--------|-------------|------------|---------|
| Pmax   | 38.0000     | 37.9930    | -0.0184 |
| Vmp    | 7.7400      | 7.7390     | -0.0129 |
| Imp    | 4.9100      | 4.9093     | -0.0143 |
| Voc    | 9.7000      | 9.6770     | -0.2371 |
| Isc    | 5.4000      | 5.3962     | -0.0704 |

## Data Information

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|                             |         |
|-----------------------------|---------|
| No. NE-38K1R                |         |
| Maximum output (Pmax)       | 38.0000 |
| Maximum power voltage (Vmp) | 7.7400  |
| Maximum power current (Imp) | 4.9100  |
| Open circuit voltage (Voc)  | 9.7000  |
| Short circuit current (Isc) | 5.4000  |