

# Device Modeling Report

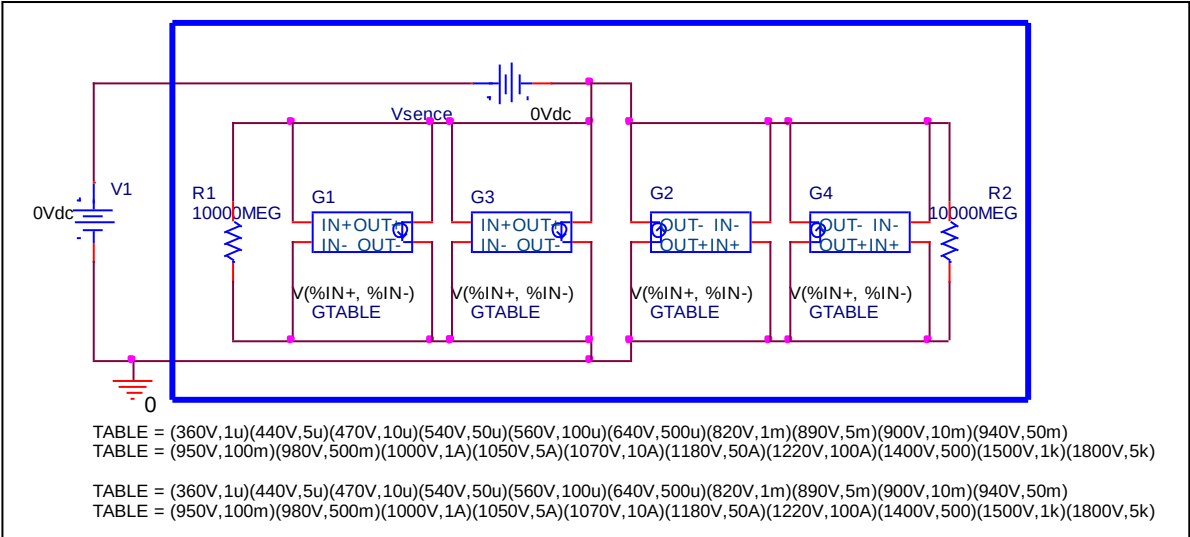
COMPONENTS: ZNR Transient/Surge Absorber  
PART NUMBER: ERZV20D751  
MANUFACTURER: Panasonic



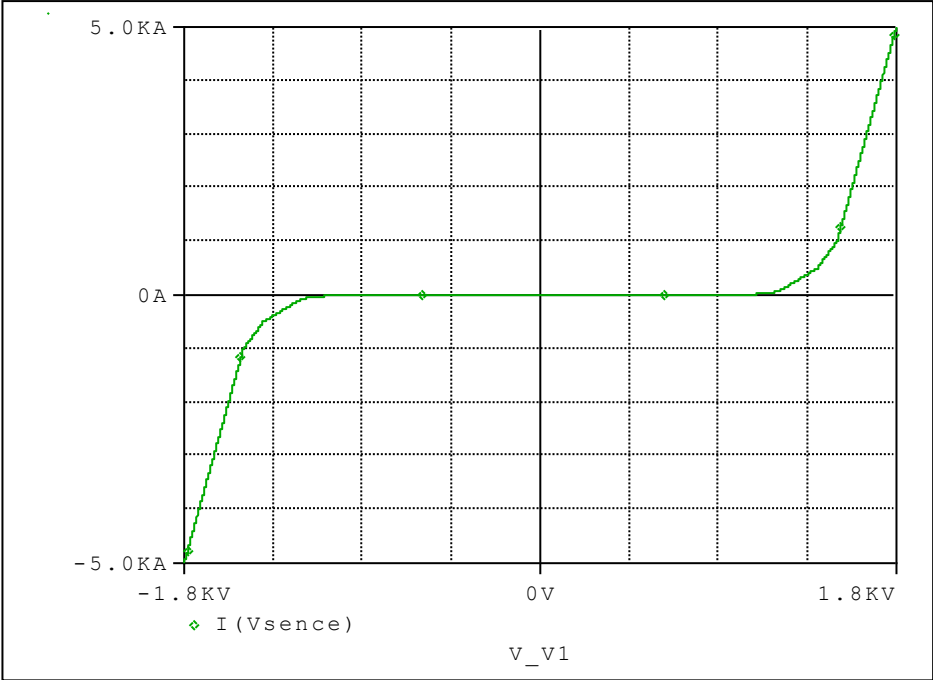
**Bee Technologies Inc.**

# ZNR Transient /Surge Absorber

## Evaluation Circuit Result



## Circuit Simulation Result



## ZNR Transient /Surge Absorber

### Simulation Result

| I(A)     | VFwd (V)    |            | %Error |
|----------|-------------|------------|--------|
|          | Measurement | Simulation |        |
| 1.00E-06 | 360.000     | 378.450    | 5.125  |
| 5.00E-06 | 440.000     | 445.450    | 1.239  |
| 1.00E-05 | 470.000     | 471.580    | 0.336  |
| 5.00E-05 | 540.000     | 540.350    | 0.065  |
| 1.00E-04 | 560.000     | 560.170    | 0.030  |
| 5.00E-04 | 640.000     | 640.310    | 0.048  |
| 1.00E-03 | 820.000     | 820.010    | 0.001  |
| 5.00E-03 | 890.000     | 890.010    | 0.001  |
| 1.00E-02 | 900.000     | 900.000    | 0.000  |
| 5.00E-02 | 940.000     | 940.000    | 0.000  |
| 1.00E-01 | 950.000     | 953.750    | 0.395  |
| 5.00E-01 | 980.000     | 982.000    | 0.204  |
| 1.00E+00 | 1000.000    | 1000.000   | 0.000  |
| 5.00E+00 | 1050.000    | 1050.000   | 0.000  |
| 1.00E+01 | 1070.000    | 1070.000   | 0.000  |
| 5.00E+01 | 1180.000    | 1180.000   | 0.000  |
| 1.00E+02 | 1220.000    | 1220.000   | 0.000  |
| 5.00E+02 | 1400.000    | 1400.000   | 0.000  |
| 1.00E+03 | 1500.000    | 1500.000   | 0.000  |
| 5.00E+03 | 1800.000    | 1800.000   | 0.000  |

## Comparison Graph

### Circuit Simulation Result

