

# Device Modeling Report

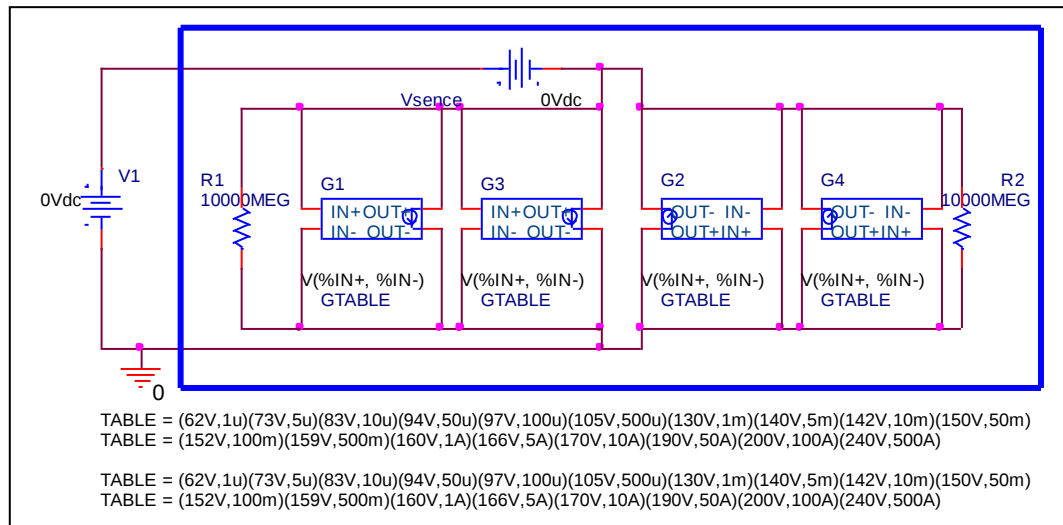
COMPONENTS: ZNR Transient/Surge Absorber  
PART NUMBER: ERZV20D121  
MANUFACTURER: Panasonic



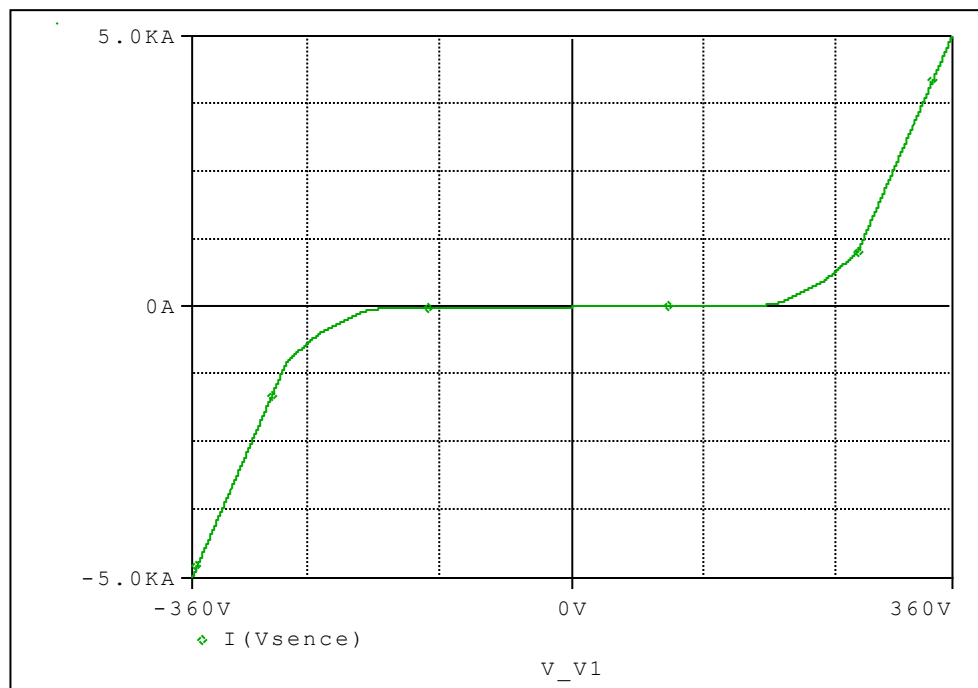
**Bee Technologies Inc.**

## ZNR Transient /Surge Absorber

### Circuit Simulation Result



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## ZNR Transient /Surge Absorber

### Simulation Result

| I(A)     | VFwd (V)    |            | %Error |
|----------|-------------|------------|--------|
|          | Measurement | Simulation |        |
| 1.00E-06 | 62.000      | 64.710     | 4.371  |
| 5.00E-06 | 73.000      | 74.960     | 2.685  |
| 1.00E-05 | 83.000      | 83.270     | 0.325  |
| 5.00E-05 | 94.000      | 94.050     | 0.053  |
| 1.00E-04 | 97.000      | 97.020     | 0.021  |
| 5.00E-04 | 105.000     | 105.040    | 0.038  |
| 1.00E-03 | 130.000     | 130.000    | 0.000  |
| 5.00E-03 | 140.000     | 140.000    | 0.000  |
| 1.00E-02 | 142.000     | 142.000    | 0.000  |
| 5.00E-02 | 150.000     | 150.000    | 0.000  |
| 1.00E-01 | 152.000     | 152.870    | 0.572  |
| 5.00E-01 | 159.000     | 159.100    | 0.063  |
| 1.00E+00 | 160.000     | 160.070    | 0.044  |
| 5.00E+00 | 166.000     | 166.040    | 0.024  |
| 1.00E+01 | 170.000     | 170.020    | 0.012  |
| 5.00E+01 | 190.000     | 190.010    | 0.005  |
| 1.00E+02 | 200.000     | 200.000    | 0.000  |
| 5.00E+02 | 240.000     | 240.000    | 0.000  |

### Comparison Graph

