

# Device Modeling Report

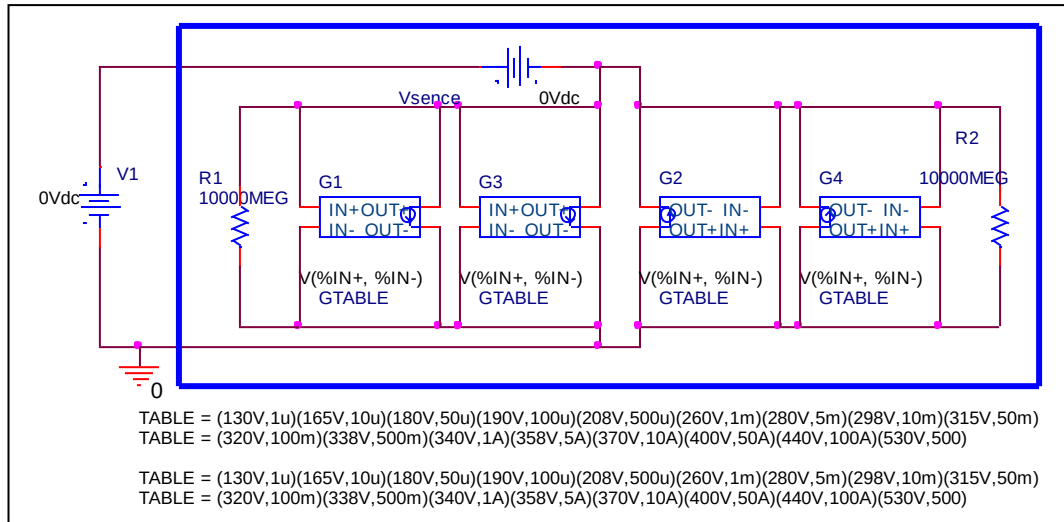
COMPONENTS: ZNR Transient/Surge Absorber  
PART NUMBER: ERZV10D241  
MANUFACTURER: Panasonic



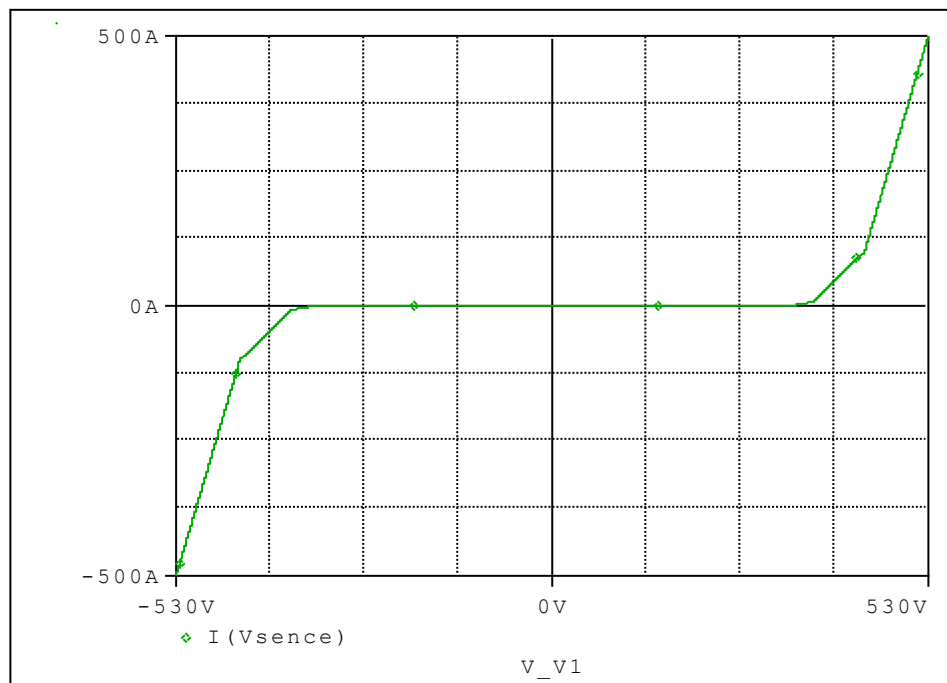
**Bee Technologies Inc.**

# 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 | 130.000     | 133.780    | 2.908  |
| 1.00E-05 | 165.000     | 165.360    | 0.218  |
| 5.00E-05 | 180.000     | 180.190    | 0.106  |
| 1.00E-04 | 190.000     | 190.190    | 0.100  |
| 5.00E-04 | 208.000     | 208.100    | 0.048  |
| 1.00E-03 | 260.000     | 260.000    | 0.000  |
| 5.00E-03 | 280.000     | 280.000    | 0.000  |
| 1.00E-02 | 298.000     | 297.690    | -0.104 |
| 5.00E-02 | 315.000     | 315.000    | 0.000  |
| 1.00E-01 | 320.000     | 322.250    | 0.703  |
| 5.00E-01 | 338.000     | 338.200    | 0.059  |
| 1.00E+00 | 340.000     | 340.220    | 0.065  |
| 5.00E+00 | 358.000     | 358.120    | 0.034  |
| 1.00E+01 | 370.000     | 370.030    | 0.008  |
| 5.00E+01 | 400.000     | 400.040    | 0.010  |
| 1.00E+02 | 440.000     | 439.470    | -0.120 |
| 5.00E+02 | 530.000     | 530.000    | 0.000  |

## Comparison Graph

### Circuit Simulation Result

