

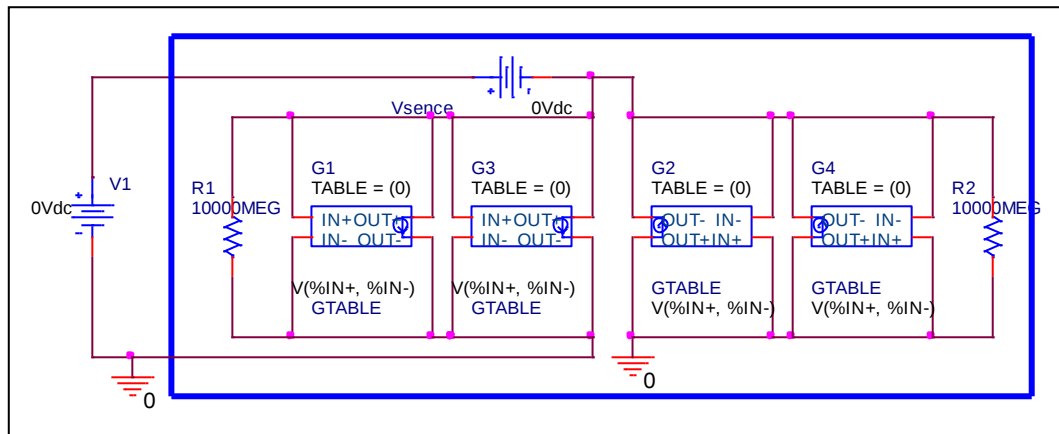
Device Modeling Report

COMPONENTS: ZNR Transient/Surge Absorber
PART NUMBER: ERZC20EK431
MANUFACTURER: Panasonic



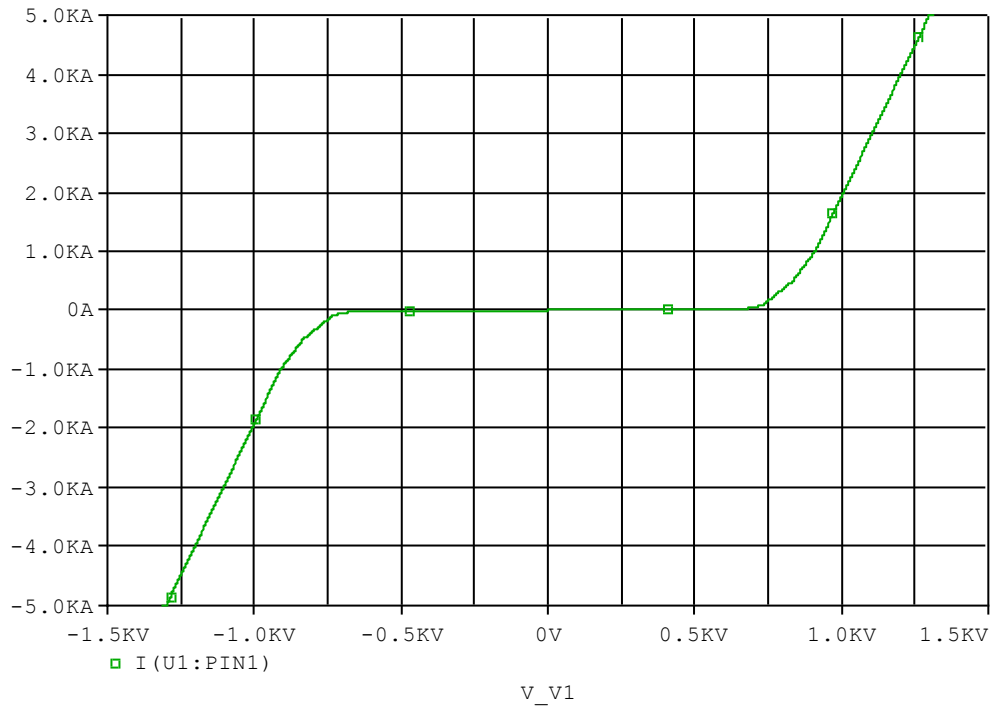
Bee Technologies Inc.

Equivalent Circuit

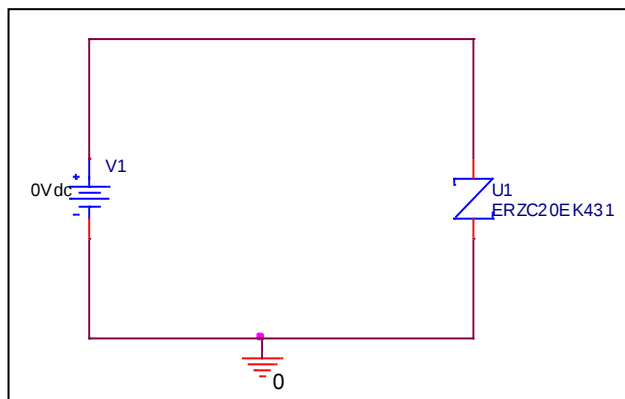


ZNR Transient /Surge Absorber

Circuit Simulation Result

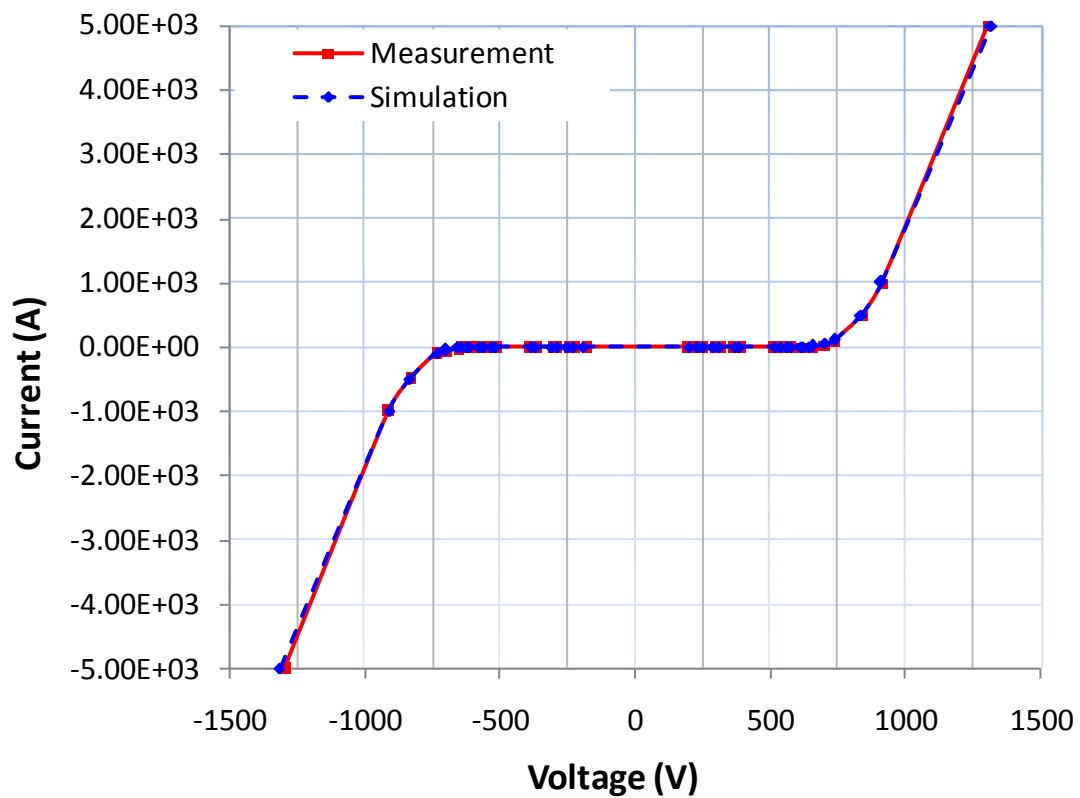


Evaluation Circuit



ZNR Transient /Surge Absorber

Comparison Graph



Simulation Result

I(A)	VFwd (V)		Error (%)
	Measurement	Simulation	
5.00E-06	227.000	231.099	1.806
1.00E-05	248.000	249.023	0.412
1.00E-04	310.000	310.140	0.045
1.00E-03	385.000	385.031	0.008
1.00E-02	535.000	535.001	0.000
1.00E-01	575.000	575.000	0.000
1.00E+00	615.000	617.875	0.467
1.00E+01	655.000	655.563	0.086
1.00E+02	735.000	735.125	0.017
1.00E+03	910.000	910.049	0.005
5.00E+03	1300.000	1315.000	1.154