

Device Modeling Report

COMPONENTS:VARISTOR
PART NUMBER:VR60B(A)
MANUFACTURER:SHINDENGEN

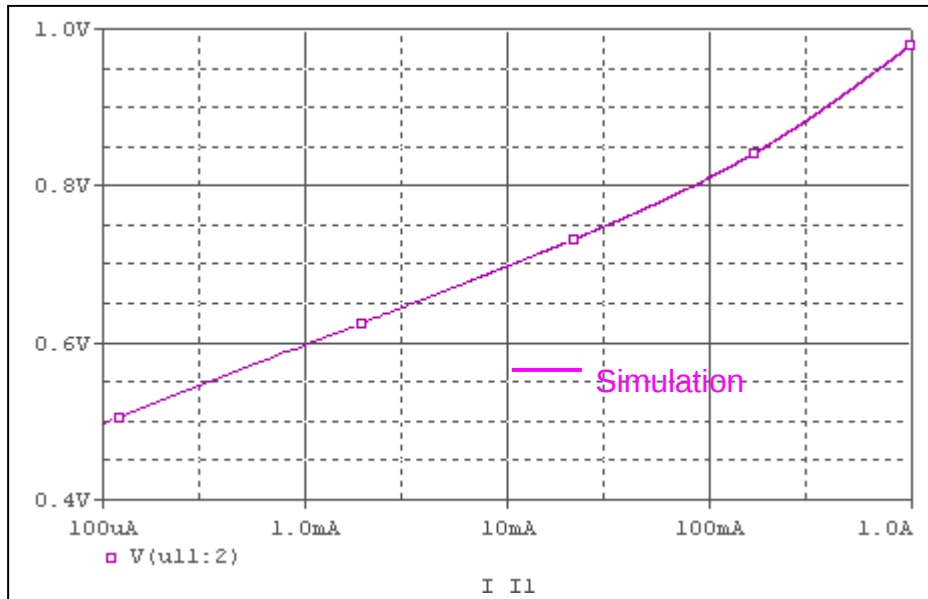


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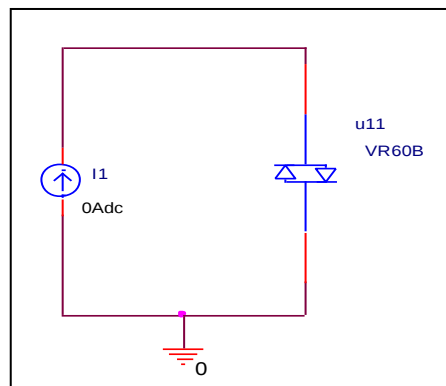
Pspice model parameter	Model description
IS	Saturation Current
N	Emission Coefficient
RS	Series Resistance
IKF	High-injection Knee Current
ISR	Recombination Current Saturation Value
TT	Transit Time

Forward Current Characteristic

Circuit simulation result



Evaluation Circuit

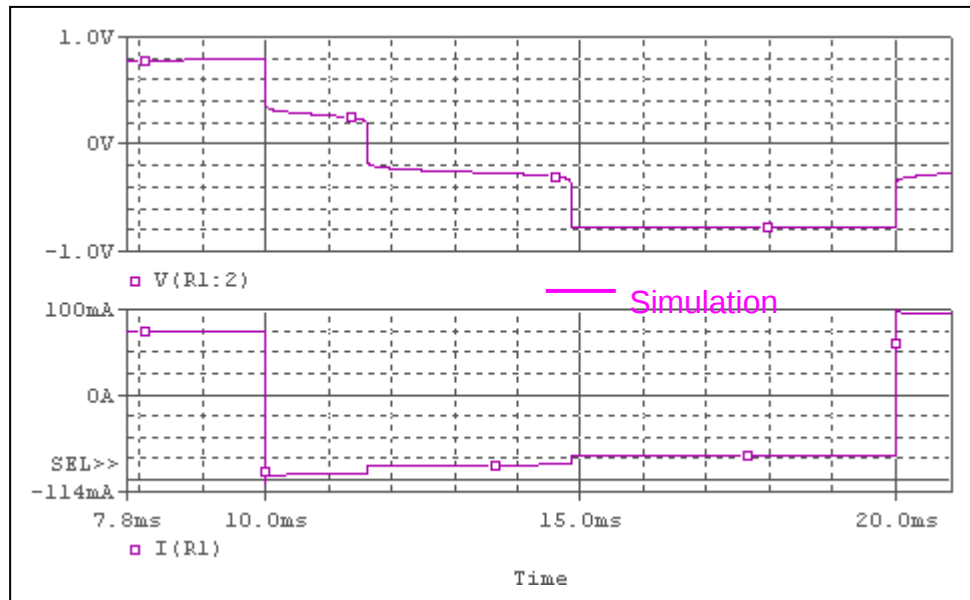


Comparison Measurement and Simulation

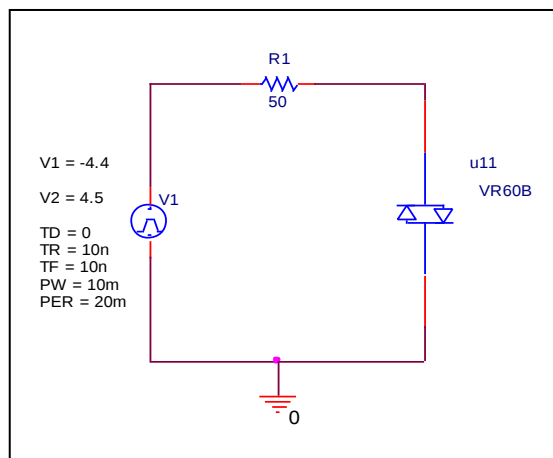
Ifwd(A)	Vfwd(V) : Measurement	Vfwd(V) : Simulation	% Error
1m	0.600	0.597	0.500
2m	0.625	0.627	0.320
5m	0.665	0.667	0.301
10m	0.700	0.697	0.429
20	0.730	0.728	0.274
50m	0.775	0.773	0.258
100m	0.810	0.810	0.000

Reverse Recovery Characteristic

Circuit simulation result



Evaluation Circuit



Comparison Measurement and Simulation

	TT	Measurement(sec)	Simulation(sec)	% Error
VR60B1	3.49E-6	1.72u	1.7065u	0.7849
VR60B2	2.8E-3	1.50m	1.4813m	1.2467
VR60B3	10.7E-3	4.47m	4.4095m	1.3535

Measurement

