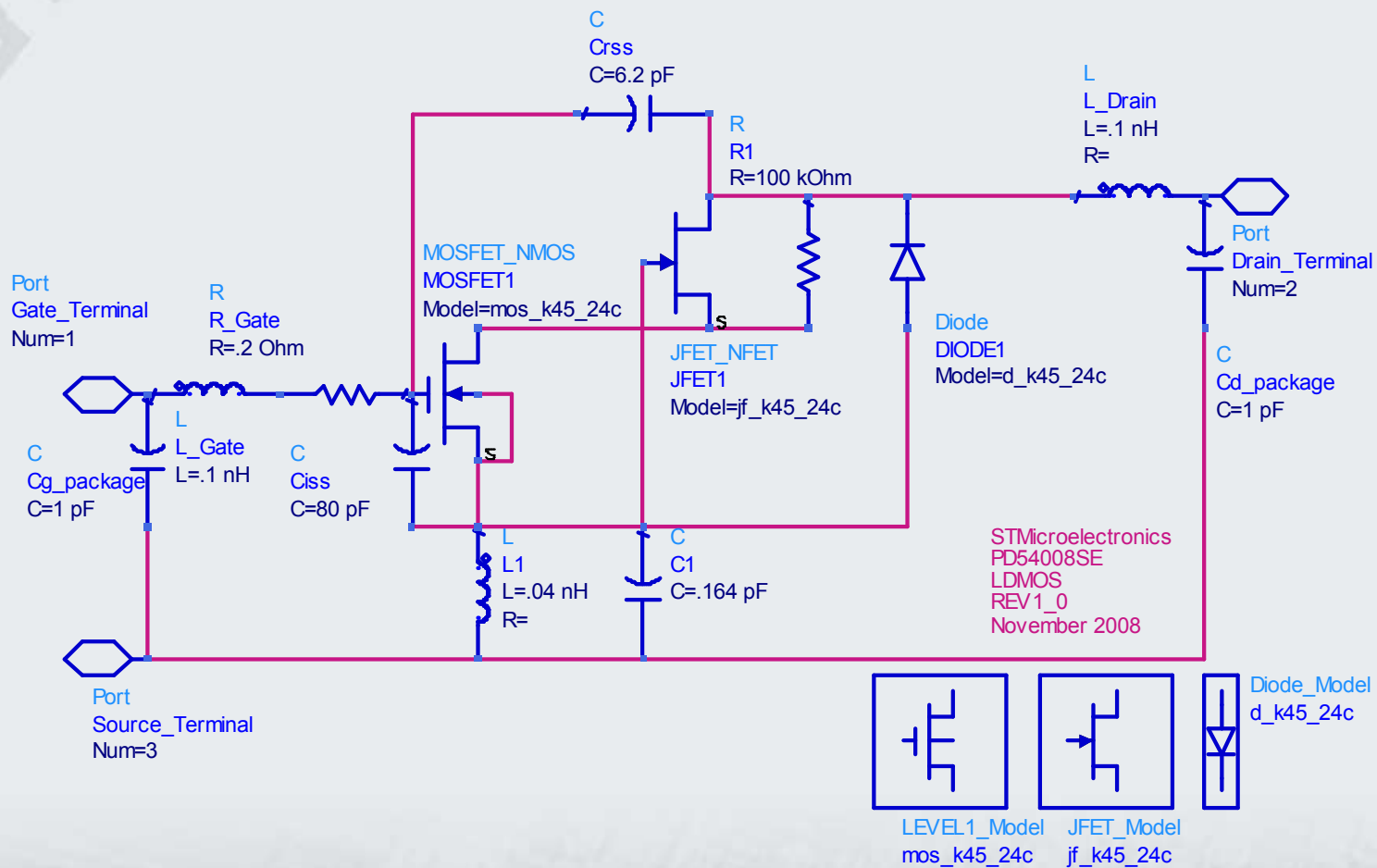


PD54008SE_rev1_0

Model validation

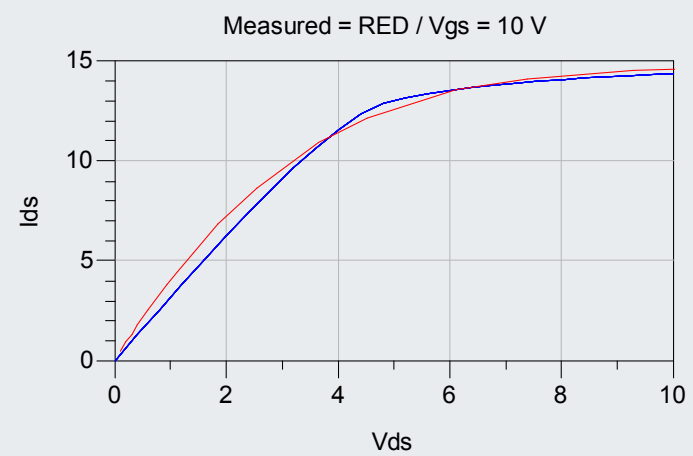
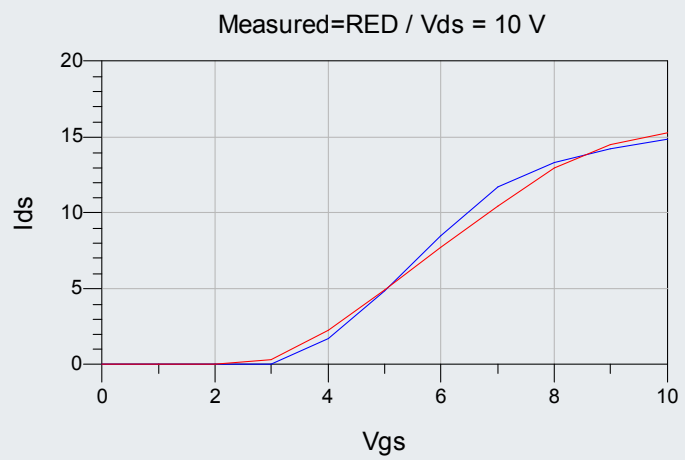


Quakertown , PA
Qtn-jp-208-rev1
November 18 , 2008



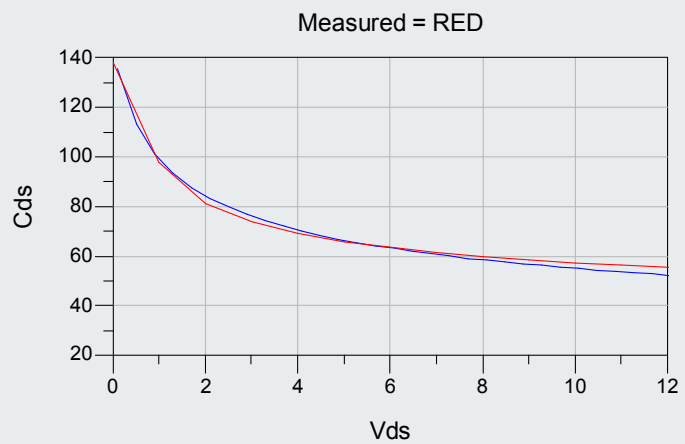
PD54008SE

DC



PD54008SE

Cds



VBias	Coss_pF	
	freq=1.000 MHz	
0.000	145.200	
1.000	99.045	
2.000	84.286	
3.000	76.036	
4.000	70.503	
5.000	66.427	
6.000	63.245	
7.000	60.662	
8.000	58.504	
9.000	56.663	
10.000	55.064	
11.000	53.657	
12.000	52.405	



PD54008SE

S-parameter

Measured

freq	S(1,1)	S(2,1)	S(1,2)	S(2,2)
50.00 MHz	0.760 / -161.000	9.320 / 84.000	0.034 / -3.000	0.743 / -160.000
100.0 MHz	0.810 / -167.000	4.440 / 72.000	0.003 / -16.000	0.761 / -166.000
150.0 MHz	0.838 / -169.000	2.860 / 63.000	0.031 / -24.000	0.783 / -167.000
200.0 MHz	0.862 / -171.000	2.010 / 56.000	0.028 / -31.000	0.817 / -168.000
250.0 MHz	0.881 / -172.000	1.500 / 48.000	0.026 / -38.000	0.845 / -169.000
300.0 MHz	0.900 / -173.000	1.160 / 42.000	0.023 / -43.000	0.866 / -170.000
350.0 MHz	0.916 / -174.000	0.920 / 37.000	0.021 / -47.000	0.888 / -171.000
400.0 MHz	0.927 / -174.500	0.750 / 32.000	0.019 / -51.000	0.906 / -172.000
450.0 MHz	0.938 / -175.000	0.610 / 28.000	0.017 / -54.000	0.918 / -173.000
500.0 MHz	0.945 / -176.000	0.520 / 25.000	0.015 / -56.000	0.932 / -174.000
550.0 MHz	0.952 / -177.000	0.440 / 22.000	0.013 / -59.000	0.940 / -175.000
600.0 MHz	0.957 / -178.000	0.380 / 19.000	0.012 / -60.000	0.950 / -176.000
650.0 MHz	0.963 / -178.000	0.330 / 16.000	0.011 / -61.000	0.951 / -176.000

Simulated

freq	S(1,1)	S(2,1)	S(1,2)	S(2,2)
50.00 MHz	0.805 / -160.922	14.353 / 87.863	0.025 / -1.223	0.707 / -167.947
100.0 MHz	0.818 / -167.518	6.939 / 75.044	0.024 / -13.110	0.729 / -163.861
150.0 MHz	0.839 / -169.194	4.360 / 65.582	0.022 / -21.604	0.763 / -165.035
200.0 MHz	0.862 / -170.052	3.039 / 57.792	0.020 / -28.367	0.798 / -165.739
250.0 MHz	0.883 / -170.773	2.243 / 51.300	0.018 / -33.749	0.830 / -166.535
300.0 MHz	0.900 / -171.479	1.719 / 45.885	0.016 / -37.938	0.857 / -167.434
350.0 MHz	0.915 / -172.173	1.355 / 41.362	0.014 / -41.076	0.880 / -168.367
400.0 MHz	0.927 / -172.839	1.093 / 37.573	0.012 / -43.265	0.897 / -169.280
450.0 MHz	0.937 / -173.467	0.899 / 34.384	0.011 / -44.557	0.912 / -170.146
500.0 MHz	0.945 / -174.051	0.751 / 31.687	0.009 / -44.944	0.924 / -170.951
550.0 MHz	0.951 / -174.592	0.635 / 29.398	0.008 / -44.338	0.933 / -171.693
600.0 MHz	0.956 / -175.091	0.545 / 27.449	0.006 / -42.540	0.941 / -172.374
650.0 MHz	0.961 / -175.552	0.472 / 25.785	0.005 / -39.182	0.947 / -172.998



PD54008SE

480 MHz – 520 MHz Large Signal RF

