



AO4411 RELIABILITY TESTING REPORT

Part Number: AO4411
Package Type: P Channel Enhancement Mode Field Effect Transistor
Wafer ID: AOSE6425.3
Test Name and Conditions: HTRB/Vd=24V/T=150°C/Ta=23°C/RH=45%

Item Name	CONT	VTH	IGSS	IGSS	IDSS	BVDSS	VTH	RDON	RDON	VDSON	IGSS	IGSS	IDSS
Serial#													
1	-3.300E-03	-2.106E+00	-4.200E-09	4.000E-09	-1.700E-08	-3.362E+01	-2.103E+00	2.640E-02	4.922E-02	7.590E-01	-5.600E-09	3.000E-09	-1.500E-08
2	-3.200E-03	-2.103E+00	-3.900E-09	4.300E-09	-1.500E-08	-3.351E+01	-2.099E+00	2.636E-02	4.918E-02	7.560E-01	-5.000E-09	4.400E-09	-1.500E-08
3	-2.800E-03	-2.086E+00	-3.900E-09	5.600E-09	-1.400E-08	-3.394E+01	-2.083E+00	2.661E-02	4.894E-02	7.560E-01	-4.900E-09	3.900E-09	-1.600E-08
4	-3.000E-03	-2.068E+00	-4.600E-09	4.500E-09	-1.500E-08	-3.409E+01	-2.069E+00	2.672E-02	4.880E-02	7.560E-01	-5.100E-09	3.300E-09	-1.500E-08
5	-2.600E-03	-2.111E+00	-4.600E-09	4.300E-09	-1.400E-08	-3.402E+01	-2.108E+00	2.677E-02	4.964E-02	7.560E-01	-6.200E-09	3.200E-09	-1.300E-08
6	-2.600E-03	-2.078E+00	-3.200E-09	4.300E-09	-1.200E-08	-3.415E+01	-2.074E+00	2.716E-02	4.904E-02	7.560E-01	-5.300E-09	4.200E-09	-1.200E-08
7	-2.500E-03	-2.088E+00	-4.100E-09	4.400E-09	-1.500E-08	-3.387E+01	-2.086E+00	2.657E-02	4.898E-02	7.560E-01	-5.100E-09	4.700E-09	-1.500E-08
8	-2.500E-03	-2.078E+00	-4.000E-09	4.500E-09	-1.400E-08	-3.392E+01	-2.076E+00	2.658E-02	4.858E-02	7.570E-01	-6.200E-09	3.700E-09	-1.300E-08
9	-2.600E-03	-2.094E+00	-4.500E-09	4.300E-09	-1.400E-08	-3.359E+01	-2.089E+00	2.636E-02	4.912E-02	7.560E-01	-5.000E-09	4.300E-09	-1.200E-08
10	-2.500E-03	-2.120E+00	-5.000E-09	4.600E-09	-1.400E-08	-3.440E+01	-2.114E+00	2.711E-02	5.032E-02	7.540E-01	-6.100E-09	2.800E-09	-1.400E-08
11	-2.800E-03	-2.092E+00	-4.800E-09	4.100E-09	-1.400E-08	-3.436E+01	-2.087E+00	2.690E-02	4.950E-02	7.540E-01	-5.000E-09	3.700E-09	-1.200E-08
12	-2.600E-03	-2.102E+00	-5.300E-09	4.300E-09	-1.400E-08	-3.358E+01	-2.100E+00	2.637E-02	4.926E-02	7.570E-01	-4.600E-09	5.000E-09	-1.200E-08
13	-2.300E-03	-2.097E+00	-5.300E-09	4.500E-09	-1.500E-08	-3.362E+01	-2.094E+00	2.617E-02	4.892E-02	7.540E-01	-5.100E-09	3.600E-09	-1.400E-08
14	-2.400E-03	-2.087E+00	-4.300E-09	3.800E-09	-1.400E-08	-3.384E+01	-2.085E+00	2.652E-02	4.882E-02	7.560E-01	-5.300E-09	4.200E-09	-1.400E-08
15	-2.600E-03	-2.098E+00	-4.500E-09	3.300E-09	-1.400E-08	-3.350E+01	-2.095E+00	2.628E-02	4.904E-02	7.570E-01	-4.800E-09	3.500E-09	-1.400E-08
16	-2.700E-03	-2.098E+00	-3.300E-09	4.800E-09	-1.600E-08	-3.353E+01	-2.095E+00	2.636E-02	4.892E-02	7.540E-01	-5.000E-09	3.900E-09	-1.300E-08
17	-2.500E-03	-2.102E+00	-3.100E-09	4.200E-09	-1.700E-08	-3.353E+01	-2.097E+00	2.652E-02	4.914E-02	7.580E-01	-4.900E-09	4.600E-09	-1.100E-08
18	-2.500E-03	-2.087E+00	-4.500E-09	4.000E-09	-1.500E-08	-3.380E+01	-2.086E+00	2.648E-02	4.876E-02	7.530E-01	-5.300E-09	4.600E-09	-1.600E-08
19	-2.600E-03	-2.072E+00	-4.000E-09	4.300E-09	-1.500E-08	-3.398E+01	-2.067E+00	2.652E-02	4.822E-02	7.570E-01	-4.500E-09	4.600E-09	-1.700E-08
20	-2.700E-03	-2.080E+00	-2.900E-09	4.200E-09	-1.000E-08	-3.426E+01	-2.076E+00	2.676E-02	4.874E-02	7.530E-01	-5.000E-09	5.000E-09	-1.000E-08
21	-2.600E-03	-2.093E+00	-4.600E-09	3.900E-09	-1.400E-08	-3.440E+01	-2.088E+00	2.697E-02	4.948E-02	7.540E-01	-4.300E-09	4.100E-09	-1.200E-08
22	-2.500E-03	-2.086E+00	-3.300E-09	4.900E-09	-1.400E-08	-3.388E+01	-2.083E+00	2.647E-02	4.876E-02	7.560E-01	-5.300E-09	4.200E-09	-1.600E-08
23	-2.500E-03	-2.086E+00	-5.300E-09	4.800E-09	-1.400E-08	-3.376E+01	-2.083E+00	2.640E-02	4.860E-02	7.540E-01	-5.100E-09	3.600E-09	-1.400E-08
24	-2.300E-03	-2.082E+00	-4.600E-09	4.500E-09	-1.400E-08	-3.384E+01	-2.082E+00	2.643E-02	4.846E-02	7.560E-01	-5.600E-09	4.000E-09	-1.400E-08
25	-2.700E-03	-2.087E+00	-3.900E-09	5.100E-09	-1.500E-08	-3.362E+01	-2.083E+00	2.640E-02	4.878E-02	7.570E-01	-4.200E-09	5.100E-09	-1.500E-08
26	-2.500E-03	-2.084E+00	-5.600E-09	3.700E-09	-1.500E-08	-3.363E+01	-2.081E+00	2.631E-02	4.842E-02	7.530E-01	-5.400E-09	3.700E-09	-1.200E-08
27	-2.500E-03	-2.094E+00	-4.800E-09	4.600E-09	-1.400E-08	-3.348E+01	-2.091E+00	2.637E-02	4.912E-02	7.560E-01	-4.900E-09	3.900E-09	-1.500E-08
28	-2.500E-03	-2.108E+00	-4.100E-09	4.300E-09	-1.600E-08	-3.397E+01	-2.105E+00	2.671E-02	4.940E-02	7.560E-01	-5.200E-09	4.600E-09	-1.500E-08
29	-2.600E-03	-2.089E+00	-3.900E-09	4.600E-09	-1.200E-08	-3.377E+01	-2.085E+00	2.635E-02	4.870E-02	7.560E-01	-5.100E-09	4.800E-09	-1.300E-08
30	-2.500E-03	-2.100E+00	-5.200E-09	4.400E-09	-1.400E-08	-3.369E+01	-2.098E+00	2.646E-02	4.898E-02	7.560E-01	-5.600E-09	3.800E-09	-1.700E-08
31	-2.500E-03	-2.098E+00	-3.900E-09	3.600E-09	-1.400E-08	-3.351E+01	-2.094E+00	2.627E-02	4.890E-02	7.560E-01	-4.900E-09	4.000E-09	-1.200E-08
32	-2.700E-03	-2.092E+00	-4.200E-09	5.100E-09	-1.300E-08	-3.366E+01	-2.090E+00	2.620E-02	4.860E-02	7.550E-01	-4.900E-09	5.000E-09	-1.800E-08
33	-2.500E-03	-2.095E+00	-4.800E-09	3.400E-09	-1.500E-08	-3.361E+01	-2.090E+00	2.630E-02	4.886E-02	7.560E-01	-5.700E-09	3.400E-09	-1.400E-08
34	-2.500E-03	-2.092E+00	-4.300E-09	4.200E-09	-1.800E-08	-3.362E+01	-2.091E+00	2.645E-02	4.892E-02	7.560E-01	-5.700E-09	3.900E-09	-1.300E-08
35	-2.300E-03	-2.091E+00	-4.200E-09	4.700E-09	-1.400E-08	-3.372E+01	-2.089E+00	2.635E-02	4.884E-02	7.560E-01	-5.000E-09	4.700E-09	-1.400E-08
36	-2.700E-03	-2.088E+00	-4.400E-09	3.400E-09	-1.700E-08	-3.392E+01	-2.084E+00	2.676E-02	4.914E-02	7.570E-01	-5.500E-09	3.400E-09	-1.400E-08
37	-2.400E-03	-2.086E+00	-4.500E-09	4.100E-09	-1.600E-08	-3.350E+01	-2.084E+00	2.618E-02	4.854E-02	7.560E-01	-4.800E-09	4.000E-09	-1.500E-08
38	-2.500E-03	-2.091E+00	-5.200E-09	4.200E-09	-1.500E-08	-3.361E+01	-2.088E+00	2.632E-02	4.880E-02	7.550E-01	-6.400E-09	2.500E-09	-1.600E-08
39	-2.500E-03	-2.095E+00	-5.300E-09	4.600E-09	-1.500E-08	-3.356E+01	-2.091E+00	2.636E-02	4.904E-02	7.570E-01	-5.700E-09	3.400E-09	-1.400E-08
40	-2.500E-03	-2.098E+00	-5.100E-09	3.900E-09	-1.700E-08	-3.351E+01	-2.095E+00	2.627E-02	4.876E-02	7.580E-01	-5.600E-09	3.400E-09	-1.400E-08

41	-2.400E-03	-2.097E+00	-4.600E-09	3.900E-09	-1.200E-08	-3.350E+01	-2.095E+00	2.625E-02	4.876E-02	7.560E-01	-5.300E-09	3.700E-09	-1.400E-08
42	-2.500E-03	-2.091E+00	-4.400E-09	4.800E-09	-1.300E-08	-3.443E+01	-2.087E+00	2.697E-02	4.950E-02	7.550E-01	-4.800E-09	4.400E-09	-1.100E-08
43	-2.500E-03	-2.094E+00	-4.400E-09	4.500E-09	-1.500E-08	-3.356E+01	-2.090E+00	2.625E-02	4.860E-02	7.560E-01	-5.700E-09	4.000E-09	-1.400E-08
44	-2.500E-03	-2.080E+00	-3.900E-09	5.300E-09	-1.400E-08	-3.380E+01	-2.077E+00	2.656E-02	4.868E-02	7.560E-01	-4.300E-09	4.700E-09	-1.500E-08
45	-2.400E-03	-2.087E+00	-3.700E-09	4.700E-09	-1.100E-08	-3.364E+01	-2.084E+00	2.632E-02	4.874E-02	7.560E-01	-5.500E-09	3.700E-09	-1.300E-08
46	-2.500E-03	-2.070E+00	-4.700E-09	5.600E-09	-1.700E-08	-3.412E+01	-2.065E+00	2.667E-02	4.830E-02	7.530E-01	-5.600E-09	4.100E-09	-1.400E-08
47	-2.500E-03	-2.090E+00	-5.000E-09	4.600E-09	-1.400E-08	-3.374E+01	-2.086E+00	2.642E-02	4.892E-02	7.550E-01	-4.300E-09	4.500E-09	-1.200E-08
48	-2.500E-03	-2.110E+00	-3.700E-09	4.600E-09	-1.500E-08	-3.367E+01	-2.107E+00	2.651E-02	4.940E-02	7.580E-01	-4.800E-09	5.100E-09	-1.900E-08
49	-2.500E-03	-2.101E+00	-5.000E-09	4.300E-09	-1.200E-08	-3.346E+01	-2.100E+00	2.631E-02	4.902E-02	7.540E-01	-5.500E-09	4.400E-09	-1.500E-08
50	-2.500E-03	-2.082E+00	-5.000E-09	4.300E-09	-1.300E-08	-3.361E+01	-2.078E+00	2.640E-02	4.832E-02	7.540E-01	-6.000E-09	3.700E-09	-1.500E-08
51	-2.200E-03	-2.105E+00	-5.100E-09	4.300E-09	-1.500E-08	-3.353E+01	-2.099E+00	2.646E-02	4.936E-02	7.560E-01	-5.300E-09	4.400E-09	-1.300E-08
52	-2.300E-03	-2.069E+00	-4.100E-09	4.700E-09	-1.300E-08	-3.416E+01	-2.067E+00	2.672E-02	4.858E-02	7.550E-01	-5.400E-09	3.900E-09	-1.500E-08
53	-2.400E-03	-2.087E+00	-4.400E-09	4.000E-09	-1.400E-08	-3.379E+01	-2.085E+00	2.652E-02	4.882E-02	7.540E-01	-5.400E-09	3.800E-09	-1.400E-08
54	-2.500E-03	-2.117E+00	-4.100E-09	4.600E-09	-1.400E-08	-3.400E+01	-2.117E+00	2.665E-02	4.952E-02	7.540E-01	-4.500E-09	4.700E-09	-1.500E-08
55	-2.600E-03	-2.096E+00	-4.700E-09	3.900E-09	-1.300E-08	-3.362E+01	-2.092E+00	2.636E-02	4.902E-02	7.540E-01	-5.600E-09	3.900E-09	-1.300E-08
56	-2.300E-03	-2.073E+00	-5.000E-09	3.900E-09	-1.300E-08	-3.411E+01	-2.072E+00	2.670E-02	4.858E-02	7.550E-01	-6.000E-09	4.200E-09	-9.000E-09
57	-2.400E-03	-2.083E+00	-4.700E-09	4.200E-09	-1.000E-08	-3.387E+01	-2.078E+00	2.661E-02	4.884E-02	7.560E-01	-5.900E-09	3.600E-09	-1.300E-08
58	-2.500E-03	-2.087E+00	-4.400E-09	4.300E-09	-1.700E-08	-3.384E+01	-2.084E+00	2.648E-02	4.886E-02	7.560E-01	-5.400E-09	3.400E-09	-1.100E-08
59	-2.500E-03	-2.087E+00	-4.300E-09	3.800E-09	-1.200E-08	-3.376E+01	-2.082E+00	2.640E-02	4.850E-02	7.540E-01	-4.800E-09	4.300E-09	-1.100E-08
60	-2.500E-03	-2.087E+00	-4.800E-09	4.600E-09	-1.800E-08	-3.371E+01	-2.084E+00	2.638E-02	4.866E-02	7.560E-01	-5.700E-09	3.200E-09	-1.400E-08
61	-2.300E-03	-2.090E+00	-4.500E-09	4.500E-09	-1.500E-08	-3.362E+01	-2.086E+00	2.638E-02	4.860E-02	7.560E-01	-5.300E-09	4.400E-09	-1.200E-08
62	-2.500E-03	-2.091E+00	-3.400E-09	4.100E-09	-1.400E-08	-3.358E+01	-2.087E+00	2.625E-02	4.862E-02	7.560E-01	-5.300E-09	4.400E-09	-1.000E-08
63	-2.400E-03	-2.091E+00	-4.000E-09	5.100E-09	-1.000E-08	-3.355E+01	-2.090E+00	2.625E-02	4.860E-02	7.560E-01	-5.300E-09	4.700E-09	-1.500E-08
64	-2.300E-03	-2.091E+00	-3.900E-09	4.600E-09	-1.300E-08	-3.357E+01	-2.090E+00	2.641E-02	4.880E-02	7.570E-01	-4.500E-09	4.900E-09	-1.300E-08
65	-2.600E-03	-2.096E+00	-4.600E-09	4.000E-09	-1.200E-08	-3.358E+01	-2.092E+00	2.633E-02	4.882E-02	7.570E-01	-6.100E-09	4.300E-09	-1.800E-08
66	-2.500E-03	-2.102E+00	-5.600E-09	3.900E-09	-1.500E-08	-3.359E+01	-2.096E+00	2.628E-02	4.906E-02	7.550E-01	-5.700E-09	3.800E-09	-1.500E-08
67	-2.400E-03	-2.102E+00	-5.000E-09	4.600E-09	-1.500E-08	-3.362E+01	-2.099E+00	2.632E-02	4.902E-02	7.540E-01	-5.900E-09	3.400E-09	-1.100E-08
68	-2.400E-03	-2.100E+00	-5.000E-09	4.800E-09	-1.300E-08	-3.362E+01	-2.097E+00	2.645E-02	4.914E-02	7.560E-01	-5.100E-09	3.200E-09	-1.500E-08
69	-2.500E-03	-2.100E+00	-5.200E-09	4.700E-09	-1.800E-08	-3.364E+01	-2.096E+00	2.646E-02	4.876E-02	7.560E-01	-5.900E-09	3.100E-09	-1.300E-08
70	-2.200E-03	-2.107E+00	-4.300E-09	5.100E-09	-1.400E-08	-3.403E+01	-2.103E+00	2.670E-02	4.932E-02	7.560E-01	-5.600E-09	4.500E-09	-1.500E-08
71	-2.500E-03	-2.112E+00	-5.300E-09	4.300E-09	-1.300E-08	-3.407E+01	-2.108E+00	2.677E-02	4.968E-02	7.560E-01	-5.100E-09	4.300E-09	-1.300E-08
72	-2.400E-03	-2.116E+00	-5.400E-09	3.700E-09	-1.600E-08	-3.432E+01	-2.111E+00	2.688E-02	4.982E-02	7.560E-01	-5.800E-09	3.600E-09	-1.200E-08
73	-2.600E-03	-2.113E+00	-4.500E-09	4.000E-09	-1.300E-08	-3.419E+01	-2.109E+00	2.685E-02	4.970E-02	7.560E-01	-6.100E-09	3.600E-09	-1.400E-08
74	-2.600E-03	-2.113E+00	-5.000E-09	4.300E-09	-1.500E-08	-3.420E+01	-2.109E+00	2.690E-02	4.966E-02	7.580E-01	-5.700E-09	3.400E-09	-1.100E-08
75	-2.300E-03	-2.116E+00	-3.600E-09	4.200E-09	-1.400E-08	-3.384E+01	-2.112E+00	2.693E-02	4.984E-02	7.560E-01	-4.600E-09	4.500E-09	-1.200E-08
76	-2.600E-03	-2.117E+00	-5.500E-09	4.300E-09	-9.000E-09	-3.400E+01	-2.113E+00	2.653E-02	4.940E-02	7.570E-01	-5.000E-09	4.200E-09	-1.000E-08
77	-2.300E-03	-2.109E+00	-4.400E-09	4.000E-09	-1.500E-08	-3.355E+01	-2.107E+00	2.646E-02	4.940E-02	7.560E-01	-5.500E-09	3.900E-09	-1.200E-08
78	-2.500E-03	-2.114E+00	-4.300E-09	4.200E-09	-1.200E-08	-3.402E+01	-2.110E+00	2.678E-02	4.952E-02	7.540E-01	-6.000E-09	4.200E-09	-1.400E-08
79	-2.500E-03	-2.100E+00	-5.000E-09	3.700E-09	-1.600E-08	-3.345E+01	-2.097E+00	2.650E-02	4.912E-02	7.560E-01	-5.400E-09	3.900E-09	-1.000E-08
80	-2.500E-03	-2.107E+00	-5.000E-09	3.700E-09	-1.600E-08	-3.348E+01	-2.104E+00	2.636E-02	4.938E-02	7.560E-01	-5.700E-09	4.200E-09	-1.100E-08

Min Limit						-30.00 V	-1.400 V			0.000 V			
Max Limit	-100.0mV	-9.000 V	-100.0nA	100.0nA	-1.000uA	-99.99 V	-2.700 V	32.00mR	55.00mR	1.000 V	-100.0nA	100.0nA	-1.000uA
Average	-2.52E-03	-2.09E+00	-4.48E-09	4.34E-09	-1.42E-08	-3.38E+01	-2.09E+00	2.65E-02	4.90E-02	7.56E-01	-5.30E-09	4.02E-09	-1.36E-08
STDEV	1.78E-04	1.20E-02	6.11E-10	4.60E-10	1.82E-09	2.62E-01	1.18E-02	2.25E-04	4.01E-04	1.26E-03	5.00E-10	5.66E-10	1.97E-09
Min Data	-3.30E-03	-2.12E+00	-5.60E-09	3.30E-09	-1.80E-08	-3.44E+01	-2.12E+00	2.62E-02	4.82E-02	7.53E-01	-6.40E-09	2.50E-09	-1.90E-08
Max Data	-2.20E-03	-2.07E+00	-2.90E-09	5.60E-09	-9.00E-09	-3.35E+01	-2.07E+00	2.72E-02	5.03E-02	7.59E-01	-4.20E-09	5.10E-09	-9.00E-09