

JUNO Test System DTS-1000

DataFileName: C:\Dts\Data\N0011A1A.jdf

TestFileName: n001pq.jtf

Device: N0011ST10`

Lot:

Operator: 362 RH=45%

Comment: AFTER,TEST,1-80/HTGB/Vg=12V/T=150°C/t=500h/Ta=21°C

Item Name	1 CONT	2 VTH	3 IGSS	4 IGSS	
Bias1	IB= 1.00mA	ID= 250uA	VGS= 12.0V	VGS=-12.0V	
Bias2					
Bias3					
Min Limit					
Max Limit	100.0mV	9.000 V	10.00nA	-10.00nA	
Average	003.8mV	1.001 V	00.26nA	-00.63nA	
STDEV	0.000	0.017	0.000	0.000	
Min Data	003.3mV	0.948 V	-02.42nA	-02.27nA	
Max Data	004.6mV	1.029 V	02.22nA	01.12nA	
Serial#	Bin#				
1	10	004.5mV	0.979 V	-00.12nA	-00.51nA
2	10	004.2mV	1.006 V	-00.36nA	-00.31nA
3	10	004.0mV	1.000 V	00.12nA	-00.01nA
4	10	003.7mV	0.996 V	-00.53nA	-00.39nA
5	10	003.8mV	0.994 V	01.00nA	-00.40nA
6	10	003.9mV	0.997 V	00.42nA	-01.23nA
7	10	003.9mV	1.008 V	02.06nA	-00.54nA
8	10	003.9mV	0.997 V	01.67nA	-01.26nA
9	10	003.9mV	0.984 V	-00.67nA	-01.39nA
10	10	003.8mV	1.000 V	-00.33nA	-00.22nA
11	10	003.7mV	1.018 V	00.04nA	-00.81nA
12	10	003.5mV	1.018 V	01.11nA	-01.62nA
13	10	003.8mV	0.997 V	-01.99nA	-01.28nA
14	10	003.8mV	0.963 V	-00.57nA	-01.14nA
15	10	003.7mV	1.024 V	-00.09nA	-00.45nA
16	10	003.5mV	1.012 V	-00.41nA	-00.12nA
17	10	003.8mV	1.015 V	01.91nA	00.43nA
18	10	003.5mV	1.002 V	01.72nA	-01.26nA
19	10	003.9mV	0.997 V	-00.51nA	-01.18nA
20	10	003.6mV	0.973 V	01.50nA	-00.39nA
21	10	003.8mV	1.010 V	-02.42nA	00.38nA
22	10	003.7mV	1.000 V	01.58nA	-00.81nA
23	10	003.3mV	1.004 V	01.18nA	-00.42nA
24	10	003.8mV	0.973 V	-00.39nA	-02.27nA
25	10	003.5mV	0.982 V	-00.06nA	-00.83nA
26	10	003.7mV	1.023 V	00.90nA	-00.36nA
27	10	003.6mV	0.996 V	-00.28nA	01.12nA
28	10	003.9mV	1.011 V	-00.59nA	00.11nA
29	10	003.7mV	0.972 V	02.08nA	-01.39nA
30	10	003.7mV	1.016 V	01.19nA	-00.93nA
31	10	003.7mV	0.978 V	00.15nA	-00.12nA

32	10	003.6mV	1.004 V	00.42nA	-00.47nA
33	10	003.6mV	1.011 V	00.18nA	-00.14nA
34	10	003.5mV	1.023 V	00.05nA	00.72nA
35	10	003.7mV	1.013 V	00.42nA	-01.70nA
36	10	003.6mV	1.016 V	00.95nA	-00.50nA
37	10	003.9mV	1.013 V	01.60nA	-00.70nA
38	10	003.6mV	0.994 V	-00.26nA	-01.77nA
39	10	003.7mV	0.975 V	-01.19nA	-00.17nA
40	10	003.6mV	0.973 V	00.01nA	-01.87nA
41	10	004.4mV	1.020 V	-00.19nA	-02.02nA
42	10	003.9mV	0.985 V	-00.17nA	-01.67nA
43	10	003.8mV	0.993 V	00.24nA	00.54nA
44	10	003.8mV	1.022 V	01.24nA	-00.06nA
45	10	003.9mV	1.023 V	-00.62nA	-00.93nA
46	10	003.7mV	1.004 V	-00.98nA	-00.79nA
47	10	003.7mV	1.007 V	01.45nA	00.21nA
48	10	003.8mV	1.018 V	-00.29nA	-00.82nA
49	10	004.0mV	1.015 V	00.82nA	-00.42nA
50	10	003.9mV	1.024 V	00.80nA	-01.39nA
51	10	003.8mV	0.994 V	-00.14nA	00.76nA
52	10	004.1mV	1.025 V	-01.34nA	-01.12nA
53	10	003.9mV	0.991 V	-01.14nA	-01.20nA
54	10	003.9mV	0.999 V	-00.10nA	00.76nA
55	10	003.7mV	0.969 V	00.20nA	-00.30nA
56	10	003.8mV	1.015 V	00.80nA	-00.48nA
57	10	003.9mV	0.989 V	-01.02nA	00.48nA
58	10	003.9mV	0.999 V	-00.92nA	-00.10nA
59	10	003.6mV	1.021 V	00.38nA	-01.62nA
60	10	003.8mV	1.022 V	01.27nA	-01.11nA
61	10	003.8mV	0.999 V	00.90nA	-00.04nA
62	10	004.5mV	1.008 V	-00.30nA	-00.40nA
63	10	004.0mV	1.025 V	-00.54nA	-01.25nA
64	10	004.0mV	1.016 V	00.05nA	-01.50nA
65	10	004.0mV	1.005 V	-00.72nA	-01.01nA
66	10	004.0mV	1.016 V	-00.23nA	-01.07nA
67	10	004.0mV	1.029 V	00.59nA	-00.29nA
68	10	003.8mV	0.995 V	00.00nA	-01.51nA
69	10	003.7mV	1.007 V	00.77nA	-00.21nA
70	10	003.7mV	0.999 V	00.84nA	-00.89nA
71	10	003.9mV	1.017 V	00.02nA	-01.17nA
72	10	003.8mV	1.008 V	00.03nA	-01.20nA
73	10	003.7mV	1.015 V	-00.06nA	-01.38nA
74	10	003.7mV	0.993 V	00.42nA	-00.97nA
75	10	003.7mV	1.002 V	01.73nA	-00.68nA
76	10	003.9mV	0.998 V	01.24nA	00.81nA
77	10	003.9mV	0.999 V	-00.56nA	-00.09nA
78	10	003.7mV	0.993 V	02.22nA	-00.78nA
79	10	003.7mV	1.015 V	01.44nA	-00.19nA
80	10	004.1mV	0.967 V	00.95nA	00.18nA
81	10	004.6mV	0.948 V	00.50nA	-00.40nA

5 IDSS VDS= 30.0V	6 BVDSS ID= 250uA  Vmax= 60V	7 VTH ID= 250uA	8 RDON ID= 5.00A VGS= 10.0V	9 RDON ID= 5.00A VGS= 4.50V
	31.00 V	0.450 V		
10.00nA	99.99 V	1.200 V	24.00mR	30.00mR
0.003uA	34.30 V	1.001 V	021.0mR	026.0mR
0.000	1.142	0.017	0.001	0.001
-0.001uA	31.28 V	0.950 V	019.4mR	022.5mR
0.009uA	35.57 V	1.029 V	022.6mR	029.5mR
0.001uA	34.64 V	0.982 V	20.12mR	25.00mR
0.001uA	35.36 V	1.004 V	20.26mR	25.16mR
0.004uA	33.60 V	1.000 V	21.20mR	25.14mR
0.001uA	35.29 V	0.997 V	20.82mR	25.78mR
0.004uA	35.40 V	0.995 V	20.96mR	24.00mR
0.000uA	35.22 V	0.996 V	20.78mR	25.74mR
0.006uA	34.99 V	1.007 V	20.40mR	26.42mR
0.008uA	32.08 V	0.998 V	20.78mR	25.80mR
0.003uA	31.98 V	0.983 V	21.10mR	26.10mR
0.007uA	33.28 V	1.001 V	21.12mR	26.14mR
-0.001uA	35.45 V	1.017 V	22.04mR	27.02mR
0.001uA	35.47 V	1.016 V	21.72mR	25.66mR
0.004uA	32.66 V	0.997 V	20.54mR	25.56mR
0.006uA	33.00 V	0.961 V	20.02mR	24.94mR
0.004uA	35.17 V	1.024 V	21.70mR	25.88mR
0.004uA	34.20 V	1.010 V	22.52mR	26.46mR
0.003uA	34.68 V	1.017 V	21.20mR	26.30mR
0.006uA	33.15 V	1.005 V	21.26mR	26.34mR
0.005uA	33.77 V	0.994 V	20.64mR	25.58mR
0.008uA	32.35 V	0.976 V	21.12mR	26.14mR
0.004uA	35.47 V	1.013 V	22.06mR	27.12mR
0.004uA	32.57 V	1.002 V	21.62mR	25.60mR
0.004uA	34.03 V	1.004 V	21.94mR	25.78mR
0.003uA	31.63 V	0.973 V	20.54mR	25.46mR
0.004uA	33.89 V	0.983 V	20.32mR	25.30mR
0.001uA	35.28 V	1.025 V	21.92mR	26.06mR
0.002uA	31.45 V	0.996 V	21.94mR	26.96mR
0.005uA	35.55 V	1.011 V	20.90mR	27.00mR
0.007uA	32.76 V	0.972 V	20.40mR	26.22mR
0.006uA	35.42 V	1.017 V	22.82mR	26.76mR
0.007uA	33.52 V	0.980 V	21.44mR	26.36mR

0.003uA	32.93 V	1.000 V	22.80mR	26.78mR
0.005uA	35.57 V	1.011 V	21.62mR	26.62mR
0.000uA	35.12 V	1.023 V	21.08mR	26.18mR
0.005uA	35.53 V	1.012 V	22.14mR	27.18mR
0.006uA	34.52 V	1.015 V	22.02mR	27.04mR
0.007uA	35.50 V	1.013 V	20.62mR	25.58mR
0.006uA	34.67 V	0.998 V	20.60mR	25.66mR
0.000uA	33.17 V	0.975 V	21.98mR	26.90mR
0.003uA	32.75 V	0.972 V	21.92mR	26.76mR
0.003uA	35.34 V	1.020 V	21.68mR	26.70mR
0.001uA	33.84 V	0.987 V	20.74mR	25.60mR
0.001uA	34.74 V	0.994 V	22.56mR	27.40mR
0.003uA	35.00 V	1.022 V	22.60mR	27.72mR
0.005uA	34.71 V	1.022 V	21.68mR	26.72mR
0.003uA	33.51 V	1.004 V	21.68mR	26.58mR
0.005uA	33.56 V	1.003 V	21.68mR	26.64mR
0.003uA	34.96 V	1.015 V	22.44mR	27.48mR
0.003uA	34.50 V	1.013 V	22.44mR	27.62mR
0.003uA	35.32 V	1.025 V	22.38mR	27.44mR
0.009uA	34.16 V	0.996 V	21.42mR	26.32mR
0.003uA	35.09 V	1.024 V	21.84mR	26.00mR
0.004uA	34.92 V	0.992 V	21.24mR	26.06mR
0.007uA	31.28 V	1.000 V	21.12mR	26.24mR
0.004uA	33.28 V	0.969 V	21.60mR	26.46mR
0.001uA	35.44 V	1.014 V	22.26mR	27.26mR
0.003uA	34.36 V	0.987 V	21.66mR	26.56mR
0.007uA	33.56 V	0.997 V	20.92mR	25.90mR
0.003uA	35.17 V	1.018 V	21.98mR	26.92mR
0.007uA	35.31 V	1.022 V	22.10mR	27.16mR
0.001uA	33.42 V	0.999 V	20.92mR	25.84mR
0.005uA	33.47 V	1.008 V	21.88mR	25.78mR
0.004uA	35.37 V	1.023 V	22.64mR	26.70mR
0.004uA	34.44 V	1.014 V	22.26mR	27.22mR
0.004uA	35.25 V	1.005 V	21.84mR	26.76mR
0.003uA	35.42 V	1.014 V	21.64mR	26.64mR
0.000uA	35.44 V	1.029 V	21.28mR	26.32mR
0.003uA	35.30 V	0.995 V	21.76mR	26.76mR
0.001uA	35.25 V	1.006 V	20.96mR	25.84mR
0.006uA	33.49 V	0.997 V	21.12mR	26.10mR
0.001uA	35.38 V	1.018 V	20.74mR	25.72mR
0.007uA	32.92 V	1.010 V	21.46mR	26.44mR
0.004uA	34.45 V	1.014 V	22.20mR	27.20mR
0.003uA	34.19 V	0.993 V	22.46mR	27.44mR
0.003uA	35.32 V	1.002 V	21.62mR	26.54mR
0.003uA	33.37 V	0.999 V	20.22mR	25.10mR
0.007uA	35.34 V	0.997 V	21.28mR	26.28mR
-0.001uA	34.92 V	0.994 V	22.26mR	27.24mR
0.001uA	35.24 V	1.015 V	22.36mR	27.24mR
0.002uA	34.37 V	0.967 V	21.14mR	26.06mR
0.006uA	35.32 V	0.950 V	21.62mR	26.60mR

10 RDON ID= 3.50A VGS= 2.50V	11 VFSD IS= 5.00A	12 IGSS VGS= 12.0V	13 IDSS VDS= 30.0V
45.00mR	1.200 V	10.00nA	10.00nA
041.6mR	0.861 V	001.1nA	0.005uA
0.001	0.004	0.000	0.000
039.0mR	0.855 V	-002.5nA	0.000 A
044.5mR	0.881 V	004.3nA	0.010uA
41.22mR	0.861 V	-000.2nA	0.007uA
43.02mR	0.864 V	003.5nA	0.003uA
41.51mR	0.863 V	002.1nA	0.002uA
42.25mR	0.863 V	000.6nA	0.007uA
41.77mR	0.858 V	002.0nA	0.000uA
43.60mR	0.866 V	000.7nA	0.005uA
42.37mR	0.859 V	-000.6nA	0.006uA
41.37mR	0.862 V	001.0nA	0.010uA
41.14mR	0.873 V	002.9nA	0.006uA
41.48mR	0.863 V	003.6nA	0.003uA
43.08mR	0.863 V	-002.1nA	0.005uA
42.62mR	0.861 V	002.3nA	0.004uA
41.80mR	0.870 V	000.1nA	0.005uA
40.45mR	0.865 V	001.8nA	0.008uA
42.54mR	0.857 V	004.0nA	0.007uA
41.91mR	0.867 V	003.8nA	0.002uA
41.91mR	0.857 V	003.1nA	0.000uA
41.05mR	0.859 V	000.4nA	0.002uA
40.88mR	0.855 V	000.0nA	0.007uA
40.17mR	0.863 V	004.1nA	0.006uA
43.05mR	0.859 V	000.3nA	0.007uA
40.91mR	0.867 V	001.1nA	0.005uA
40.94mR	0.864 V	000.9nA	0.003uA
40.02mR	0.867 V	001.8nA	0.005uA
40.28mR	0.858 V	000.3nA	0.007uA
43.62mR	0.863 V	001.7nA	0.004uA
40.14mR	0.867 V	-000.4nA	0.007uA
42.25mR	0.856 V	-000.4nA	0.008uA
39.71mR	0.862 V	002.8nA	0.007uA
42.60mR	0.859 V	000.9nA	0.002uA
39.20mR	0.857 V	-001.9nA	0.009uA

40.54mR	0.857 V	002.3nA	0.005uA
42.77mR	0.859 V	004.1nA	0.002uA
42.80mR	0.861 V	000.3nA	0.003uA
43.11mR	0.862 V	003.2nA	0.005uA
42.00mR	0.862 V	002.5nA	0.004uA
42.45mR	0.859 V	000.8nA	0.010uA
41.37mR	0.858 V	000.9nA	0.006uA
39.74mR	0.859 V	000.8nA	0.005uA
39.17mR	0.862 V	001.0nA	0.007uA
44.05mR	0.867 V	000.1nA	0.003uA
40.45mR	0.864 V	-002.2nA	0.001uA
41.71mR	0.862 V	000.6nA	0.005uA
43.20mR	0.864 V	001.0nA	0.010uA
42.74mR	0.864 V	001.9nA	0.004uA
44.57mR	0.881 V	-002.5nA	0.007uA
40.11mR	0.858 V	-001.6nA	0.003uA
41.77mR	0.856 V	000.7nA	0.005uA
41.68mR	0.857 V	003.0nA	0.004uA
43.05mR	0.858 V	000.4nA	0.005uA
40.62mR	0.855 V	000.4nA	0.004uA
42.80mR	0.859 V	004.2nA	0.001uA
41.40mR	0.861 V	004.3nA	0.003uA
41.22mR	0.863 V	001.0nA	0.005uA
39.02mR	0.859 V	-000.9nA	0.004uA
42.02mR	0.858 V	002.5nA	0.002uA
41.57mR	0.863 V	000.6nA	0.005uA
40.51mR	0.855 V	003.4nA	0.007uA
42.02mR	0.858 V	-000.1nA	0.006uA
42.68mR	0.858 V	003.1nA	0.007uA
39.91mR	0.859 V	003.9nA	0.010uA
41.28mR	0.864 V	002.5nA	0.006uA
43.17mR	0.862 V	-001.7nA	0.006uA
40.94mR	0.856 V	001.1nA	0.006uA
42.42mR	0.862 V	000.1nA	0.003uA
42.40mR	0.860 V	-000.6nA	0.004uA
41.77mR	0.855 V	-000.3nA	0.003uA
42.60mR	0.861 V	-000.5nA	0.007uA
42.54mR	0.862 V	002.3nA	0.005uA
41.88mR	0.863 V	000.2nA	0.007uA
42.80mR	0.859 V	001.5nA	0.006uA
40.14mR	0.856 V	001.6nA	0.010uA
41.91mR	0.863 V	001.0nA	0.004uA
40.68mR	0.861 V	001.3nA	0.009uA
41.22mR	0.855 V	-002.0nA	0.007uA
40.08mR	0.861 V	001.7nA	0.006uA
42.11mR	0.859 V	002.5nA	0.001uA
40.91mR	0.856 V	000.9nA	0.008uA
42.80mR	0.863 V	001.6nA	0.003uA
41.05mR	0.864 V	002.5nA	0.002uA
42.17mR	0.861 V	000.7nA	0.007uA