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1: **$ENCRYPTED_LIB
2: **$INTERFACE
3: * PSpice Model Editor - Version 16.2.0
4: *$
5: * UCC25600
6: *****
7: * (C) Copyright 2013 Texas Instruments Incorporated. All rights reserved.
8: *****
9: ** This model is designed as an aid for customers of Texas Instruments.
10: ** TI and its licensors and suppliers make no warranties, either expressed
11: ** or implied, with respect to this model, including the warranties of
12: ** merchantability or fitness for a particular purpose. The model is
13: ** provided solely on an "as is" basis. The entire risk as to its quality
14: ** and performance is with the customer
15: *****
16: *
17: ** Released by: WEBENCH Design Center, Texas Instruments Inc.
18: * Part: UCC25600
19: * Date: 25SEP2013
20: * Model Type: Transient
21: * Simulator: PSPICE
22: * Simulator Version: 16.2.0.p001
23: * EVM Order Number: EVM (HPA341)
24: * EVM Users Guide: SLUU361April 2009
25: * Datasheet: SLUS846B SEPTEMBER 2008REVISED JULY 2011
26: *
27: * Model Version: Final 1.00
28: *
29: *****
30: *
31: * Updates:
32: *
33: * Final 1.00
34: * Release to Web
35: *
36: *****
37: *
38: * Model Usage Notes:
39: *
40: * 1. The following features have been modeled
41: *     a. Switching Frequency v/s RT resistor
42: *     b. Deadtime v/s DT resistor
43: * 2. Figure 7, 8, 9, 10, 11 from the datasheet are not modeled (Values at 25C are considered).
44: *
45: *****
46: .SUBCKT UCC25600_TRANS DT OC RT SS VCC GD1 GD2 GND
47: $CDNENCSTART
48: eee8c5c7a2bc4b01f045f303678664e7916da0bae22e8cb0bba041dd67c69ce448ea70148a9ac1670c8926c1ac5057c8ccfcd77bf87ca9dced52cc602f48c27b
49: e9f419af62bfe95e628e6c2a84cc65dd2688e0dfc494de0f519c9500d4b801cf8492e52ca990713717ab25c39b3409a859abfabb00ad70ba53081cfaa9230181
50: 09a503e1af40f07ab1b2e0ee1c221987aad0cae5ebf3019a4cc7d4f7427922f33dbf35e2592bf3d7e6cc5e557a3c106367e851ead15b2a910f86bbc1438841da
```


101: 55136b92d0559ec4e71f71e1875841714cc7d4f7427922f33dbf35e2592bf3d7e6cc5e557a3c106367e851ead15b2a91de6ccc763475b3ceb88a6c9366dff5dc
102: e9f419af62bfe95e5bd1d958b85c63372688e0dfc494de0f351c48fd3cc0b02c8492e52ca990713774bd84a1f90ee88c11379f40f6945fe7cfc8f60bb1e4b77a
103: 53c082b195825f91eeb858a3a69e92dd644126c9831a96bd4cc7d4f7427922f33dbf35e2592bf3d7e6cc5e557a3c106367e851ead15b2a910f86bbc1438841da
104: 3e2f6d3b6fa1f79e42cdae931a3d3892c02d2d9372c03ffa79ab8f2b53c66d5547c2999a24d1543d33d3c60d69cac86528e7d71460b9c154901d3f3c7f1ef60e
105: c3f79b4609191d9b706b807646b803717b6b96cab45c6ee93ae2468b9ecaccb91db9be5844c9b7c84ec5850e704dd631fbd67efb1043a1e2d4ad0c203b8ad9ef
106: 385bb969478bc1fd99833895c09d90539783113c2b271e8bada462b7c42fb9a7208a85e1aefd30a06e21ba87059f379b264866b3f10c5af4576120197e38a69
107: af399d32d282acb6a263d3ef9a2264bd7386463fc26a014adcae02a052f89a2da290117246b6bdc47e283b747a56c7941d4e7946c3b5f9444765a78faae22ede9
108: d2a6f7e632f6e240706b807646b80371665aaae256219221d76167baccb438ba00d3e0b087c7374442cdae931a3d3892c02d2d9372c03ffa69f63e66ba788f33
109: bdadeec1d4eda933706b807646b80371a08792b1034404ebfda371680e0c13116f9a635cd037322bafef5040957ee65200d3e0b087c7374431d019cdae70d870
110: c18beea1ddade083706b807646b80371a08792b1034404eb55e2a0cb857e7be44ba2216b7e828e5b00d3e0b087c7374442cdae931a3d3892436d2b66847f52b9
111: 88642418aa31eccb706b807646b80371a08792b1034404eb104f5bc60495b9f825099988b83441b9bafef5040957ee65200d3e0b087c7374431d019cdae70d870
112: e9f419af62bfe95eddb4b29aaeb56c852688e0dfc494de0f72d3116f74ca45da8492e52ca990713774bd84a1f90ee88ca4b6f13b7315f59fce56133b05a358cc
113: 51a837e5b8d59442e033578534f961d26e9adfbcaaf6fe5125d7a787f2d39803f23a97ef1f1d051abcf4b0ff0007956a2fce07424ad42e8af357abf43b3ebd61
114: 32cd76a2a36328a9bd8a91623ed6c6bab00af8c7ad6033fbb192f6e2cf6745f07a8ee61b2ac7ee78a48e116be34e416db5f1c17ee7956303ed52cc602f48c27b
115: c768dd54c070d682706b807646b80371a08792b1034404ebaa249048f89233184c0be7416ff9fbc856ed27f01de477562d766f77596a54b1c022559c34d47a8
116: faf38c75316d0585706b807646b803717af6f4c6b03f4e16c8459af3f01fecbddd98bcd7ae1314f8a263d3ef9a2264bd7386463fc26a014a5237ed7e51143eec
117: e9f419af62bfe95e09c4739f84a8c1c02688e0dfc494de0f72d3116f74ca45da8492e52ca990713774bd84a1f90ee88cedf852fe6c1aefeca5cd6230ab7f846f
118: 172fcef26330567ff44496155f03ed4f5651d10d29ebe89e9cd1b241aee3ca527d25d62c4583802eb516c6374f716458cdc98df979ee8e018818cbd4210f0def
119: 1b321580e3e7edcf706b807646b80371ca734aa83b8f8426e9d468469750e39100d3e0b087c7374442cdae931a3d3892c02d2d9372c03ffa69f63e66ba788f33
120: f609c441bb61e78c706b807646b803714b1c4df981679e1dc79c5195b3c697fd042f0c0c78bb0deba263d3ef9a2264bd7386463fc26a014a5237ed7e51143eec
121: e9d36920d2449dc8706b807646b80371a08792b1034404eb677d49be2b9eed9f8b91ababefdc706bafef5040957ee65200d3e0b087c7374431d019cdae70d870
122: 025af1404b9bbe0d706b807646b80371a08792b1034404ebdd4c62910e4aa482a984b5c814f142dfbade1317df5ab3f23b782b3d6a37df184ed652cc602f48c27b
123: e359198f0d54dd04706b807646b80371a08792b1034404eb22e712c6dfe7eccad76167baccb438ba00d3e0b087c7374442cdae931a3d3892436d2b66847f52b9
124: 5aa875be979324eb706b807646b803714faa76dd4ebef8156e56ef7b103a718f6bf55428c35ad9f818b1e200d5b367e934cb1f5e9a6331347930dd0ea548b5c0
125: 174aab22bc8b48c3706b807646b80371a08792b1034404ebbb3a34c493507b4faaf4b7be9fedfc9a8478a87bc5b8e6cf96bf55428c35ad9f811e89b3f90b53f1c
126: f55d627e5b6a5781706b807646b803710cd21e8ca845a98b0127ad895999246523b782b3d6a37df11db9be5844c9b7c84ec5850e704dd631cbf1cf296810270b
127: f9d40bfe034dc9e4706b807646b80371a08792b1034404eb0a05659ea5c1551414fa6130fb0de8c9350932f91c29cb99b710f626c2faf14a6ed52cc602f48c27b
128: 8df0563ff6b12bcb706b807646b803714faa76dd4ebef815e3c8854d9eba907f1d4e452fee093da4e033578534f961d26e9adfbcaaf6fe51c173022dc07b974d
129: 638ff464aec55f37706b807646b803715a6fa533133f11a3e5ed36f61e63f360c22e28d6958f7095651d10d29ebe89e9cd1b241aee3ca524f90023d786d0eaf
130: f24cff2bb787655c706b807646b80371701dd54135e2845d7c63738b614a4dc1d0b01a738ef93a9d303d7240d8c3139de033578534f961d21e23b55ace376035
131: fb084946fal2d2f48706b807646b803715671e59bd39a227305d2793e5127767ae07746d3d0076eb200d3e0b087c7374442cdae931a3d3892436d2b66847f52b9
132: e11f20ad36e7e098706b807646b80371eeab2e0253cc6f8753823fed859af48366eae9f9c4cc8ae15bcb4f3deed2fe5882b5425599ed1844b97ac6965124046b
133: ebf1591b7680bc626bf55428c35ad9f818b1e200d5b367e934df1f5e9a6331342b8faa1fa650af416a9a8a27fd2d97fa31bed7b19595e6545cc6ca479f16c6b6
134: 5b163e195ceae4a706b807646b803715671e59bd39a22730b45656f6126dbeeae8ece02dda0bcfd60877ff0912fae9e6598c49887b4fc2b07012a1a8f02beee
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136: 4cda07fb3e7f17e6f60b46ee8e8166be448af6bd68b1383883f4586e2fcc0a634e237b59546ef6f22962ea8ee267008d644126c9831a96bda118e546bf58ab2c
137: 064c7d10b22fd68aec4b5a01552036e1403f53704e2595d18fe1aec0698a9b90d3b99b01fef3c644982c163ff10bcfe4b2500fe4e809c5769ab468c6f113f9
138: 70c9126bd9ff8882e9aa8206dcedec85651d10d29ebe89e9cd1b241aee3ca527d25d62c4583802eb516c6374f716458cdc98df979ee8e018818cbd4210f0def
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140: 064c7d10b22fd68a472daf882b741cd8fd9475d1df4fab6d2ff3983901ebdf1bfaca85d0862a74fb0c76c4db3c95135f9dd5ccfa588ebff3bb6b2bcf56be112b
141: ad70a4fb8ff671b66bf55428c35ad9f818b1e200d5b367e934cb1f5e9a6331342b8faa1fa650af416a9a8a27fd2d97fa31bed7b19595e6545cc6ca479f16c6b6
142: 32cd76a2a36328a92532381493787cb8d6600d5af11a4d3eb1840a4bfbabelc93f013fb7ee415b211b4ad6a9271e801ed4155cda969bd8d9fb1b1de5b0925d59
143: 46ca60d9e0a03ec1fd30080fa8985e3570c3308686a4de7209490363213f45e4e160e3aa04d7a48e116be34e416db5f1c17ee7956303ed52cc602f48c27b
144: 9eaf82adc2a1140d34c73dcbf92dd8729c4005bcd9ca79e6e00efbd63f1d45d8492e52ca99071373360b3b2bcd4874aef23bbe4f31b58a8673b81ca19be4e33
145: 8e12dea80c549de261698f310be5a400f78f01ca7cd3184ca95fd1712bcacf1b029b48a33a73df9caaf399d32d282acb6a263d3ef9a2264bd73ac5403918b2efd
146: 928d7a9f462cf2ed706b807646b8037150eb858f9032cc838b0547476f2f18a15d4b44c85b70670f7e695e5d531063625a4c9a26c2a42486b77986be7141a48f
147: 1b6bec0bc33482c706b807646b80371bd8ecf3ecfc8ef6745b5a70a5cc0245b5651d10d29ebe89e9cd1b241aee3ca527d25d62c4583802e323c1799b4666e62
148: 07c82d144c68cf87cd9f9b0fe66d8ad11aedfef85be258d915cdb7782fd416598c49887b4fc2b7857de061e2a26efa85bfc87236670cdeb605ebf76f26de2
149: 1632a67cf5c03a1a706b807646b803717c63738b614a4dc1deb29c76e244f6ee66eae9f9c4cc8ae15bcb4f3deed2fe58f20766bdac48276ea80c2743bc5ec9e0
150: f0acca179947ec8f6dba65afb526cbc1a263d3ef9a2264bd7386463fc26a014adcae02a052f89a2da290117246b6bdc47e283b747a56c79421cde62a0a842d2d

151: f57b0f2f4f3d276e706b807646b80371eeab2e0253cc6f8774a1258979547e3db7e56e956fec2f26ef1d7357d3c4e2f3644126c9831a96bda118e546bf58ab2c
152: 593e80cc430081d2706b807646b803710b45656f6126d6bea8ba75e1a7d67df4598edc312c449029b94ef342977743ad062d766f77596a54b1c022559c34d47a8
153: d6aca196616365d3706b807646b80371eeab2e0253cc6f877fffa9baf890d4866eae9fc4cc8ae11b9fb80fc79e7cd8b529248e59261b2c62b84e5bac7fe806
154: 290ad72d9c5d86d6d5ba6b0a204ed1235651d10d29ebe89e9cd1b241aee3ca527d25d62c4583802eb516c6374f716458cdc98df979ee8e018818cbd4210f0def
155: 9209d3ab4a447b3e0529bb43a7ec9944cbc940513e636f1e7a8ee61b2ac7ee7875398a5ed1f1b9156bf55428c35ad9f818b1e200d5b367e949f39e38b6c0fccc
156: bdd8d6b45d26c9f3706b807646b80371143f62011610c8e26de7d7947cf2bfa76bf55428c35ad9f818b1e200d5b367e934cb1f5e9a6331347930dd0ea548b5c0
157: b965afc66411a939706b807646b80371fe2486f8cdb753dd8fa9d028134572658df8cf962e0b71f650932f91c29cb99b710f626c2faf14a6ed52cc602f48c27b
158: 064c7d10b22fd68ad6451f700dbd4eeafd9475d1df4fab6d5829074c65631300d3b99b01fef3c6449b399e078b2806b680890c5e795f5da7f08aa6603ffcf1aa
159: a8835ce432d01b0c1db9be5844c9b7c84ec5850e704dd631fbd67efb1043ale26efcae405adba980ca47c4a8e8c8d49f752925d49cb16d497a3fbd26708b2a8e
160: 32cd76a2a36328a92532381493787cb8c7c0ff6aff14e47c073d57a0eaa16b2e60c9783cd34f18105960294be34dfb0c61698f310be5a400c99cc804ae839bdf
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162: 71011f181f54b3e361ad8839db814189a8d6984e08c7aad08bf4f6f2e78aa0a8b9b3abf75e62eaa52e00aa790b2455bb3c185b56871dcecb3b300708695416e3
163: a7016332727eeac3706b807646b80371eeab2e0253cc6f876d84478bc105beae23ae7ba6d36cc4bd50932f91c29cb99b710f626c2faf14a6ed52cc602f48c27b
164: 9f337bb24085865c706b807646b803710b45656f6126d6bea2c26e93bf2541112a43dc3d884d87a691962f61c1a635c8d62d766f77596a54b1c022559c34d47a8
165: 80b5fda8ff9d3f4e706b807646b80371fe2486f8cdb753dd857295c9975dd8465f1937206921a2ed640b08cecb6cffe042f0c0c78bb0deb673b81ca19be4e33
166: 064c7d10b22fd68a7509c136893a3e2e303f53704e2595d1e5e7fade4086c0d1d3b99b01fef3c64498c453163ff10bcfe4b2500fe4e809c5769ab468c6f113f9
167: 70c9126bd9ff8882e9aa8206dcccdec85651d10d29ebe89e9cd1b241aee3ca527d25d62c4583802eb516c6374f716458cdc98df979ee8e018818cbd4210f0def
168: c930ee9bd4ca2400e26ef9f44a7eb3b5ca023470191575ccfc301e5086eb985396b3eacb99bc6a95a48e116be34e416db5f1c17ee7956303ed52cc602f48c27b
169: 88070a17816250e7706b807646b803710b45656f6126d6bead22a2727f10326dfd76167baccb438ba00d3e0b087c7374442cdae931a3d3892436d2b66847f52b9
170: 25dadebd820afd72706b807646b80371989d190a69797eee0127ad895999246523b782b3d6a37df11db9be5844c9b7c84ec5850e704dd631cbf1cf296810270b
171: 76c226c74162658e706b807646b803710b45656f6126d6beae398f727c47c7615b41429200bc9d6b4cb05648a7343990262d766f77596a54b1c022559c34d47a8
172: 090e4b6528d980ae706b807646b8037115deb1a5e6728cf5143f62011610c8e2f2f30f55709a15303d7240d8c3139de033578534f961d21e23b55ace376035
173: 9eaf82adc2a1140daf62c7e801e29edb9c4005bcd9ca79e65e53eb09280546c98492e52ca990713774bd84a1f90ee88c146628815e2daa418b8f92ada6ab6779
174: 88f02d15ca9c6f41e73070a45f1d549c6598c49887b4fc2b7857de061e2a26efa85bfcd7236670cd3e51762787380085b0f5c467238a30436445e6c14ba2c5fa
175: 58cf452d198b3802706b807646b803713ccc9f8bd5c7e25e7c63738b614a4dc13a12794a0bbb042c2303d7240d8c3139de033578534f961d21e23b55ace376035
176: 709cd66b9697eeb706b807646b803710b45656f6126d6beada88a3aa1e8e53f6d76167bacbb438ba00d3e0b087c7374442cdae931a3d3892436d2b66847f52b9
177: 8818260e40cfae59706b807646b803712549b74dc2258560127ad895999246523b782b3d6a37df11db9be5844c9b7c84ec5850e704dd631cbf1cf296810270b
178: afb57ee19c9d50ea706b807646b80371143f62011610c8e2ae1e8de5e31346c1805f3dc1f93d56fe7e695e5d53106362e085717002817eb3117c43488ffc6d6b
179: 76777896a7ce37a2706b807646b80371debee9ea7afb849e0127ad895999246523b782b3d6a37df11db9be5844c9b7c84ec5850e704dd631cbf1cf296810270b
180: 3d875a9a87f9d624706b807646b803710b45656f6126d6beaf6250f7e15a5c10cd76167baccb438ba00d3e0b087c7374442cdae931a3d3892436d2b66847f52b9
181: 9eaf82adc2a1140d976633e3a662b0a89c4005bcd9ca79e6894381d170438d328492e52ca990713774bd84a1f90ee88c5250164ead6fad4133faaa1ac7e1ab
182: 55136b92d0559ce4e71f71e1875841714cc7d4f7427922f33dbf35e2592bf3d7e6cc5e557a3c106367e851ead15b2a91de6ccc763475b3ceb88a6c9366dff5dc
183: 8e641f8c2424c2e1706b807646b80371a97b765744e54e1826d0fbb139962a0b478a87bc5b8e6cf96bf55428c35ad9f818b1e200d5b367e949f39e38b6c0fccc
184: 9eaf82adc2a1140dcd9f9b0fe66d8ad1e3b798de2a9b9eecaa2f1d7584e4b8d2ce5ec34e6f8ad1ca09a503e1af40f07a6933223ff0a8eca47cf023c2239db233
185: 7c6a057502825b8b6bf55428c35ad9f818b1e200d5b367e934cb1f5e9a6331342b8faa1fa650af416a9a8a27fd2d97fa31bed7b19595e6545cc6ca479f16c6b6
186: 40f41cdf5245bcc08f8d74c047af5be8387e82ba91c98af427876424abadc0a7280a3d8e4636feaa53456d9034a59a02e827ca08acefff3d79c7a4bc0de56f663
187: 9eaf82adc2a1140d5bd1d958b85c63379c4005bcd9ca79e6d58cdad0fec876c48492e52ca990713774bd84a1f90ee88c5dba07e1efa84051940d46f618ddb284
188: a63f11eaaca09401b5f1c17ee7956303e033578534f961d26e9adfbcaaf6fe5125d7a787f2d39803f23a97ef1f1d051abcf4b0ff0007956af92be55228ec5c32
189: 3f2d39c3473bdd81706b807646b803710b45656f6126d6beaa7ac554b70945d8dc82ab3b2f8f47edb53a4999cf475b1ba62d766f77596a54b1c022559c34d47a8
190: 064c7d10b22fd68a0fb9a87d5a97a04b3d59dfa5c6e6246c6342ce344f4132ecfac85d0862a74fb5589c49a9624f695cda4baa068a73fff6f6620a49d5db2bb
191: ca7f88d3bd0d2438ab5f1c17ee7956303e033578534f961d26e9adfbcaaf6fe5125d7a787f2d39803f23a97ef1f1d051abcf4b0ff0007956af92be55228ec5c32
192: 80409ca1121b04d7706b807646b803713ccc9f8bd5c7e25e74dc3a64e1e990ed478a87bc5b8e6cf96bf55428c35ad9f818b1e200d5b367e949f39e38b6c0fccc
193: 92491360359d2ac4706b807646b803717c63738b614a4cd18de42e8a91db457b66eae9b9fc4cc8ae15bcb4f3dced216c0a7a5b441e4d38a80c2743bc5ec9e0
194: 5f1937206921a2ed7856c6afe220f6455651d10d29ebe89e9cd1b241aee3ca527d25d62c4583802eb516c6374f716458cdc98df979ee8e018818cbd4210f0def
195: 430882cale45ea8b706b807646b803710b45656f6126d6beaffb1728fb299b3c25c702c3de286e0aac1cb60b9845d858e24fdfd9bb2e10b0766f5d7227ff3c671
196: a155848e3bbce6f3706b807646b803710b45656f6126d6bea54054943b5fb4f1ad76167baccb438ba00d3e0b087c7374442cdae931a3d3892436d2b66847f52b9
197: e713cfefd199f1eb706b807646b80371fe2486f8cdb753dd2b0e7197a01f581383alaf2b064b63d950932f91c29cb99b710f626c2faf14a6ed52cc602f48c27b
198: 2b3f0796f933b05af60b46ee8e8166bed102992399a397df1ede05ad024319068bcc8a7f6eba11314e3b5b908c2815ff5651d10d29ebe89e70605af949aa2245
199: 9eaf82adc2a1140d752f7113017609339c4005bcd9ca79e6026a90a9bc342ef78492e52ca990713774bd84a1f90ee88c2bc79891bc1c93fd9997f6750464469
200: a63f11eaaca09401b5f1c17ee7956303e033578534f961d26e9adfbcaaf6fe5125d7a787f2d39803f23a97ef1f1d051abcf4b0ff0007956af92be55228ec5c32

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201: e07dfe0d2e28b89c706b807646b803710b45656f6126d5ea58e99fd91daf668a81def0c67df4b206955f478f324f6d7f24fd9bb2e10b0766f5d7227ff3c671
202: 09a7c1f8b05a8ac1706b807646b803717c63738b614a4dc11bfbf6a661b63638691018eed3b49c3685d8806da1e0ac981625a916457b09524c721f1915d81d71
203: d177348d2deab5c2706b807646b803715671e59bd39a2273715ee7be0cf2a78ffaeaa281e22d723e644126c9831a96bd0913a741f2f1d533dcfb55a634b33adb
204: 60c9783cd34f1810706b807646b80371e5494a25d92d58bfaad0cae5ebf3019a0913a741f2f1d533c167b19f5561b8d10a3dca7c9f0c7a1a07ca2e46d08f789f
205: 9af710ac7afcd4a8706b807646b803716d2b3ea68bf556be6f351d1b39770686478a87bc5b8e6cf9691018eed3b49c3685d8806da1e0ac982c66f1c690743c90
206: fab9cf2b7c040381706b807646b8037150eb58f9032cc830277ed7ba7f99963691018eed3b49c3685d8806da1e0ac981625a916457b09524c721f1915d81d71
207: be52e6aa176ef44b706b807646b8037115deb1a5e6728cf50b95d65fc212ad34478a87bc5b8e6cf9691018eed3b49c3685d8806da1e0ac982c66f1c690743c90
208: b29471f7f94cc38f706b807646b80371b10f4f7d78547f3a0127ad895999246523b782b3d6a37df130cb792a729d977e348481f601fee253f54692846f76b1c0
209: 0b22eb7d0b342b1c706b807646b8037115deb1a5e6728cf5eb7d47e44bd5ce9f478a87bc5b8e6cf9691018eed3b49c3685d8806da1e0ac982c66f1c690743c90
210: 3e761c6835cdd8d5706b807646b803717c63738b614a4dc15906b005a38828e7691018eed3b49c3685d8806da1e0ac981625a916457b09524c721f1915d81d71
211: 7d39dd9f81bbcdfd706b807646b803715671e59bd39a22731c90425132b9714749bcb2e9b7241eb4644126c9831a96bd0913a741f2f1d533dcfb55a634b33adb
212: f850674c77dc0a72706b807646b80371701dd54135e2845db5a5d7fe347b969f478a87bc5b8e6cf9691018eed3b49c3685d8806da1e0ac982c66f1c690743c90
213: 93d3808648446fd7a60fd3951de4fe94b6c36883137f300162d766f77596a54b693b06cb62c8947be6b9412e4bab9f0a8218fbb9c051aaeb0d4817371b05d633
214: $CDNENCFINISH
215: .ENDS UCC25600_TRANS
216: *$
217: .subckt FB_SS_OC_1_U1_S3 1 2 3 4
218: $CDNENCSTART
219: eee8c5c7a2bc4b01f045f303678664e7916da0bae22e8cb0bba041dd67c69ce448ea70148a9ac1670c8926c1ac5057c8ccfcd77bf87ca9dcf7c490d903e065ec
220: e6f1a6ddc8c5050e706b807646b803714f11897f11707f10e869b8e3e8cca10530cb792a729d977e348481f601fee253dee6bc1fcd484f8a398c50cfe666ed99
221: d7a634eea09e9262706b807646b80371074b3250af40d54e693b06cb62c8947be6b9412e4bab9f0a8218fbb9c051aaebda9eeb8e789b0666983b57ea0240e8f1
222: 1e7e75f62a07f7b1bbcb463bf6330e44aad7e2ed02cbf7998da9d0385456e17b722c4bce70a1e5452b1f2f2ec61e072c69fefb61e45ddd7e0f18386135689de4
223: 2c1dc47a5e2db05dfb231b7db710cb4396af321f1afb4c6b386ccb5399a390f66643d253408b87dc14706a319cbfda0574d051333493de4be0a83d133fd4837
224: $CDNENCFINISH
225: .ends FB_SS_OC_1_U1_S3
226: *$
227: .subckt OSCILLATOR_U2_S6 1 2 3 4
228: $CDNENCSTART
229: eee8c5c7a2bc4b01f045f303678664e7916da0bae22e8cb0bba041dd67c69ce448ea70148a9ac1670c8926c1ac5057c8ccfcd77bf87ca9dcf7c490d903e065ec
230: 99a2f67a4ae02910706b807646b803714f11897f11707f104c0dabf70223a4b430cb792a729d977e348481f601fee253dee6bc1fcd484f8a398c50cfe666ed99
231: f7c163665f0c71ba706b807646b80371074b3250af40d54e693b06cb62c8947be6b9412e4bab9f0a8218fbb9c051aaebda9eeb8e789b0666983b57ea0240e8f1
232: 1e7e75f62a07f7b1bbcb463bf6330e443e6822b7fcd2365a8da9d0385456e17bb24a96954a86890992c3a6737edd4536dedf2c08fd3108919534e42d44bec5f5
233: f2ad0aeebb736720691018eed3b49c3685d8806da1e0ac981625a916457b09527d965452e8b9f907c26fd795123f762390af96292fb851ca2cee60d4c0fd0990
234: $CDNENCFINISH
235: .ends OSCILLATOR_U2_S6
236: *$
237: .subckt OSCILLATOR_U2_S5 1 2 3 4
238: $CDNENCSTART
239: eee8c5c7a2bc4b01f045f303678664e7916da0bae22e8cb0bba041dd67c69ce448ea70148a9ac1670c8926c1ac5057c8ccfcd77bf87ca9dcf7c490d903e065ec
240: 230c3588c4fc3ff2706b807646b803714f11897f11707f10e307939990bf8e1d30cb792a729d977e348481f601fee253dee6bc1fcd484f8a398c50cfe666ed99
241: 78af2157d029fc95706b807646b80371074b3250af40d54e693b06cb62c8947be6b9412e4bab9f0a8218fbb9c051aaebda9eeb8e789b0666983b57ea0240e8f1
242: 1e7e75f62a07f7b1bbcb463bf6330e443e6822b7fcd2365a8da9d0385456e17bb24a96954a86890992c3a6737edd4536dedf2c08fd3108919534e42d44bec5f5
243: f2ad0aeebb736720691018eed3b49c3685d8806da1e0ac981625a916457b09527d965452e8b9f907c26fd795123f762390af96292fb851ca2cee60d4c0fd0990
244: $CDNENCFINISH
245: .ends OSCILLATOR_U2_S5
246: *$
247: .SUBCKT srlatch S R Q
248: $CDNENCSTART
249: eee8c5c7a2bc4b01f045f303678664e7916da0bae22e8cb0bba041dd67c69ce448ea70148a9ac1670c8926c1ac5057c8ccfcd77bf87ca9dcf7c490d903e065ec
250: c0b6ebb401eab434845601598bbabfdc693b06cb62c8947be6b9412e4bab9f0a8218fbb9c051aaebda9eeb8e789b066667ba51ac757dca5d61c7d8127c9eb96b
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251: 55459e7903fb069585a9379b1de408b5c55c8187f39b70be5e9baa656668f9f36c5187dd902e91d920a194cbb3700519898e5d68d62407a2981507df04817e66
252: d283bbf75a7d1f8e344ad8a31a2bfbd50db8044bdbc6a607ae11efcc8272dcc691018eed3b49c3685d8806da1e0ac981625a916457b09524c721f1915d81d71
253: e831461a5468cfc2749d13634498f34b30e95f9a59186dd1a977ba112d77e76c294c7fa0c1010f2b439b2cea4802e529c9e898b878fcae8b815d901b38e051c3
254: 2d79f183d20fbf36b1afe49a588574dea977ba112d77e76cc9e898b878fcae8b5e1f5be85594c3d5e8ecee3b08c633f8693b06cb62c8947bee498833472403c9
255: $CDNENCFINISH
256: .ENDS
257: *$
258: .MODEL DD D
259: $CDNENCSTART
260: eee8c5c7a2bc4b01f045f303678664e7916da0bae22e8cb0bba041dd67c69ce448ea70148a9ac1670c8926c1ac5057c8ccfcd77bf87ca9dcf7c490d903e065ec
261: 33f5ccd3742978048477b2ad44cd302e2dc9c9bdbed5e152f6c57157062f5a990913a741f2f1d533c167b19f5561b8d10a3dca7c9f0c7a1a07ca2e46d08f789f
262: $CDNENCFINISH
263: *$
264: .MODEL D D1 D
265: $CDNENCSTART
266: eee8c5c7a2bc4b01f045f303678664e7916da0bae22e8cb0bba041dd67c69ce448ea70148a9ac1670c8926c1ac5057c8ccfcd77bf87ca9dcf7c490d903e065ec
267: c6d73252edd0ce7a47ebccea066b33f87341310cc24ff23b4cb7681658cc451855fd32c3e8f16eea30cb792a729d977e348481f601fee253f54692846f76b1c0
268: $CDNENCFINISH
269: *$
270: .MODEL D D2 D
271: *( IS=1e-15 TT=10p Rs=1m N=.1 )
272: *$
273: .MODEL D5K D
274: $CDNENCSTART
275: eee8c5c7a2bc4b01f045f303678664e7916da0bae22e8cb0bba041dd67c69ce448ea70148a9ac1670c8926c1ac5057c8ccfcd77bf87ca9dcf7c490d903e065ec
276: f5389f97efb6f1239427fa6f824ac36642fb8f9610bde275113f05bda6b2b950fa3c21cce0ec5da449de6ec8d2fde557723ba6b4d7d339c19d5cd4fcb8e7fb14
277: $CDNENCFINISH
278: *$
279: .MODEL NPN NPN
280: *$
281: .MODEL PNP PNP
282: *$
283: .SUBCKT DFF Q QB CLK D S R
284: $CDNENCSTART
285: eee8c5c7a2bc4b01f045f303678664e7916da0bae22e8cb0bba041dd67c69ce448ea70148a9ac1670c8926c1ac5057c8ccfcd77bf87ca9dcf7c490d903e065ec
286: 9e922746b3ebf70430341bc2c1f3553130cb792a729d977e348481f601fee253dee6bc1fcd484f8a8a48644fb553abfd527e8d525187f0cf1b7f502a65009a78
287: 032075a8cc6853fcea829f215d63064693b06cb62c8947be6b9412e4bab9f0a8218fbb9c051aebda9eeb8e789b066667ba51ac757dca5d61c7d8127c9eb96b
288: a5f39c5796ad1079db87ae7b1bc403a6344ad8a31a2bfbd55934be93f5e5c157b00af8c7ad6033fbde0deb03761235f860ed71a7e5ca38157cc11230b34018ab
289: 60611d5445bb29e831af410df8a3ab2002c4a31a46d35a6d0913a741f2f1d533c167b19f5561b8d10a3dca7c9f0c7a1a5426683753756b1a54b5f6c1f1e7d759
290: d00995ebd57d386635e5b6f9fb58ef31fb231b7db710cb4396af321f1afb4c6b386ccb5399a390f66643d253408b87dc14706a319cbfda0729d82518462c973
291: 08e147163f37b483eb1553db51121b0af03ffea6f6f4cc2492bf12d69eafb195fd246a998381c79035df6abcc04fcc249634665a7448be47c9a4b29c3b5d68e76
292: 3e5b52da127c3a5adf0589ccdf2680881693932208141b4e924891abf8eeffe14c9e5dc90c8720761113f05bda6b2b950fa3c21cce0ec5da4b70fd4d3da66fed
293: a405048fcac30c1a6e123c9511d9766230cb792a729d977e348481f601fee253dee6bc1fcd484f8a8a48644fb553abfd527e8d525187f0cf1b7f502a65009a78
294: b75a50bb44e3b503f2667b5cb330c5cf00086f355b69d813113f05bda6b2b950fa3c21cce0ec5da449de6ec8d2fde557723ba6b4d7d339c19d5cd4fcb8e7fb14
295: 1033be605ac86fd802147ff4d5c4cb2ff87db6e3ba2905a60913a741f2f1d533c167b19f5561b8d10a3dca7c9f0c7a1a5426683753756b1a54b5f6c1f1e7d759
296: 4d7ee7dde33e9387064bfd16f20eeaf60913a741f2f1d533c167b19f5561b8d10a3dca7c9f0c7a1a5426683753756b1a008ffaafelb737760eac4765d335646b8
297: 7b341edfa7445b0898e4b3cb4fb62cc3693b06cb62c8947be6b9412e4bab9f0a8218fbb9c051aebda9eeb8e789b066667ba51ac757dca5d61c7d8127c9eb96b
298: 97496d56f3a3271e3f730f3e2357fdcd14c8bbe6a4ac10f9fcb8765d1895e19f6c9af6ffd0d8ba2ffb231b7db710cb4396af321f1afb4c6b8e272a206887fda5
299: 72408c003c4adc4e19660ca341a817b0113f05bda6b2b950fa3c21cce0ec5da449de6ec8d2fde557723ba6b4d7d339c1d55b29f0557c070e3f277be8ad091d4b
300: 0f3250f6221f4d2b3c8ccbd5f42409b8fb231b7db710cb4396af321f1afb4c6b386ccb5399a390f66643d253408b87dc14706a319cbfda0729d82518462c973
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301: 26d3fb1a40b4bcdb749d13634498f34b811d6a2fa187a5ad40a119c8e9e9a5fffb24e4f7b529f2e2f693b06cb62c8947be6b9412e4bab9f0a3cefac1a426de2df
302: a42f4f8178e470a1cd8224bbbef0adf530cb792a729d977e348481f601fee253dee6bc1fcd484f8a8a48644fb553abfd527e8d525187f0cf1b7f502a65009a78
303: c4c434b75195debaebbaed6bbd67b9fe6686de2037ac731d85d8806dale0ac981625a916457b09527d965452e8b9f907c26fd795123f76238c6627351b6d400f
304: 22c76a9c9cd4d3f5f28f84a1a2d7ca9633d888f6c808b49e0a7ec76203423e2306c9af6fffd0d8ba2ffb231b7db710cb4396af321f1afb4c6b8e272a206887fda5
305: e1cf60f9377d36718ebfc44aed8f257e30cb792a729d977e348481f601fee253dee6bc1fcd484f8a8a48644fb553abfd527e8d525187f0cf1b7f502a65009a78
306: 2813950fa37a928679590ca560d0c825113f05bda6b2b950fa3c21cce0ec5da449de6ec8d2fde557723ba6b4d7d339c1d55b29f0557c070e3f277be8ad091d4b
307: d7072740a938f0e7dcc7c75451b55d8dbcflee82bdd45fd86d0ad17b3ef49a3d2ed4e03f3e56f24b7aa16b9bbc3f410afb231b7db710cb43a3c4e19e3f8f9a81
308: $CDNENCFINISH
309: .ENDS DFF
310: *$
311: .SUBCKT POWERMOS G D S PARAMS: RDSON=16m Ciss=1375p Crss=70p Coss=340p VSP=3.5 RG=1
312: * This is a simple model for Power MOSFET.
313: * The parameters modeled are
314: * - RDSON,
315: * - Input Capacitance,
316: * - Reverse capacitance,
317: * - Output capacitance,
318: * - Switching point voltage (Gate voltage where the FET starts switching),
319: * - Gate Resistance
320: $CDNENCFINISH
321: eee8c5c7a2bc4b01f045f303678664e7916da0bae22e8cb0bba041dd67c69ce448ea70148a9ac1670c8926c1ac5057c8ccfcd77bf87ca9dcf7c490d903e065ec
322: e0bee0f3fadd67247a09d08f6581ff6d3c36b07de35c0fd1630e7dc5d0ea6c21693b06cb62c8947be6b9412e4bab9f0a8218fbb9c051aeb0d4817371b05d633
323: 93d3808648446fd710c3510df4b5a5826b7ea2f7d2511305fb231b7db710cb4396af321f1afb4c6b386ccbb5399a390f66643d253408b87dca834a9b9bec1107
324: b90e0c5fe970b387efa753fca24015ef3afa3a99d8947d13cdc563b1123e9723693b06cb62c8947be6b9412e4bab9f0a8218fbb9c051aeb0d4817371b05d633
325: 9afa1f10a7f457ea8a10549faa6b20c5e56df482c906b54530cb792a729d977e348481f601fee253dee6bc1fcd484f8a8a48644fb553abfd5ee62cf83ced9780
326: 717cdf892ff6b6ffefa753fca24015ef80214d085ee9de2b971f24c942ff26fb30cb792a729d977e348481f601fee253dee6bc1fcd484f8a398c50cfe666ed99
327: d8f5a2ccd87b60ee7a09d08f6581ff6d0cd1ed9d972d9bdf644126c9831a96bd0913a741f2f1d533c167b19f5561b8d10a3dca7c9f0c7a1a07ca2e46d08f789f
328: ddf70eae3b5929056ec13594dcceca84ae6bdf42e7ab289d126b9b419d3b521f25d73083ea1ec7a40335b93c5ef00ccd86d7c4f040370b7261230c697aec28f65
329: aa43ff73c98fcc68fa923a1537eadefd4bd07fb9cf5d1cc2e7fec64b8dc6e1ee110d78f4e782488f113f05bda6b2b950fa3c21cce0ec5da4b70fd4d3da66efed
330: 6f186e75fe2741d96d3f313208a3ab11fbabf3bbebf5462191b87735de5fe50430cb792a729d977e348481f601fee253dee6bc1fcd484f8a398c50cfe666ed99
331: 1e7e75f62a07f7b1bbcb463bf6330e44b242aa309ceed850b469a8d685c038373e74721d4357bd91ae9d3e9023b3b0e28277fd894ea733d81b8d39eebc1c1a9c
332: 4026ecc45716a6732c34dc911361c236113f05bda6b2b950fa3c21cce0ec5da449de6ec8d2fde557723ba6b4d7d339c1d55b29f0557c070e3f277be8ad091d4b
333: d6f9f76e50b87b51109b40c4525dee439fd75d151a82d23a45259d7757df09d8a81f965a00e06e8c693b06cb62c8947be6b9412e4bab9f0a3cefac1a426de2df
334: $CDNENCFINISH
335: .ends POWERMOS
336: * PSpice Model Editor - Version 16.0.0
337: *$
338: * TL431
339: *****
340: * (C) Copyright 2009 Texas Instruments Incorporated. All rights reserved.
341: *****
342: ** This model is designed as an aid for customers of Texas Instruments.
343: ** TI and its licensors and suppliers make no warranties, either expressed
344: ** or implied, with respect to this model, including the warranties of
345: ** merchantability or fitness for a particular purpose. The model is
346: ** provided solely on an "as is" basis. The entire risk as to its quality
347: ** and performance is with the customer
348: *****
349: *
350: * This model was developed for Texas Instruments Incorporated by:
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351: * AEi Systems, LLC
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353: * Los Angeles, California 90045
354: *
355: * This model is subject to change without notice. Neither Texas Instruments Incorporated
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358: * products, please call AEi Systems at (310) 216-1144, or contact AEi Systems by email:
359: * info@AENG.com. Or visit AEi Systems on the web at http://www.AENG.com.
360: *
361: *****
362: *
363: ** Released by: Analog eLab Design Center, Texas Instruments Inc.
364: * Part: TL431
365: * Date: 12/14/2009
366: * Model Type: Transient and AC
367: * Simulator: PSPICE
368: * Simulator Version: 16.0.0.p001
369: * Datasheet: SLVS543J - AUGUST 2004 - REVISED DECEMBER 2005
370: *
371: *****
372: *
373: * Updates:
374: *
375: * Final 2.00
376: * Changed encrypted model to unencrypted.
377: *
378: * Final 1.00
379: * Release to Web.
380: *
381: *****
382: .SUBCKT TL431 7 6 11
383: * K A FDBK
384: $CDNENCSTART
385: eee8c5c7a2bc4b01f045f303678664e7916da0bae22e8cb0bba041dd67c69ce448ea70148a9ac1670c8926c1ac5057c8ccfcd77bf87ca9dcf7c490d903e065ec
386: 8426c8372fe6c381f87310f3bf8d87f26b9b419d3b521f25d73083ealec7a40335b93c5ef00ccd86d7c4f040370b726f4ce9d5729862da9d9bd397cacc5278c
387: 6694291b3950c75240a7eb0af9b01fa6113f05bda6b2b950fa3c21cce0ec5da449de6ec8d2fde557723ba6b4d7d339c1d55b29f0557c070e3f277be8ad091d4b
388: 580eccce134d20929c0a0bc1e20d075e5e9baa656668f9f36c5187dd902e91d920a194cbb3700519898e5d68d62407a2b62a1636ed5d2673699b224858d437c4
389: 8cda6535b3cf5fc4af17933cdab6f1f65e9baa656668f9f36c5187dd902e91d920a194cbb3700519898e5d68d62407a2b62a1636ed5d2673699b224858d437c4
390: f1fdb62f6bc4b3ea3118e5a60d123181113f05bda6b2b950fa3c21cce0ec5da449de6ec8d2fde557723ba6b4d7d339c1d55b29f0557c070e3f277be8ad091d4b
391: 25e8e6bb48150f55e847dda77d5f94430913a741f2f1d533c167b19f5561b8d10a3dca7c9f0c7a1a5426683753756b1a008ffa1b37760eac4765d335646b8
392: 00480136f9b4af849913139925746ab08611d70b548783d9b307003cf3029251d77b0b4808d406697a4e6cdf2225ec7658a8cd28e11a2a8b74fb7cf2e7c9f235
393: 2135ccb389bf7394628fe1dd06350787fb231b7db710cb4396af321f1afb4c6b386ccb5399a390f66643d253408b87dc14706a319cbfda0729d82518462c973
394: 1b71fbbcd312c1e8628fe1dd06350787fb231b7db710cb4396af321f1afb4c6b386ccb5399a390f66643d253408b87dc14706a319cbfda0729d82518462c973
395: 26d854c14733ad92691018eed3b49c3685d8806da1e0ac981625a916457b09527d965452e8b9f907c26fd795123f762390af96292fb851ca2cee60d4c0fd0990
396: 4f9e60c143509b5a2e9dcbcd27b61e81691018eed3b49c3685d8806da1e0ac981625a916457b09527d965452e8b9f907c26fd795123f76238c6627351b6d400f
397: d7072740a938f0e74edf481a7ee261f2d1977a4ffdcfddd1bae6e815aaea9676e85c3af1b0bba6b693b06cb62c8947be6b9412e4bab9f0a3cef1a426de2df
398: 75f14a98ed2eabcbbf5a397d6b3e98be5be95fb9471bd2a4a8ae5d646192131ae196f364a121998be6f1f645e6577dd2691018eed3b49c36e13ae6ba4754d246
399: $CDNENCFINISH
400: .ENDS
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C:\SPB_Data\cdssetup\pspTILibDir\ucc25600_trans.lib

401: *\$
402: