SGD512/D R3 MiniGate.qxd 10/2/03 3:20 PM Page 1

SGD512/D Rev. 3, Oct-2003

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MiniGate™ Logic from ON Semiconductor Quick Reference Card

		One-Gates				Two-Gates	Three-Gates	
Device Funct	Description	HC MC74HC1GYYDXXX	VHC (AHC) MC74VHC1GYYDXXX	VHCT (AHCT) MC74VHC1GTYYDXXX	LCX (LVC) NL17SZYYXXXX	Ultra LVLCX NLSVYYYXXXX	LCX (LVC) NL27WZYYXXXX	LCX (LVC) NL37WZYYXXXX
00	2-Input NAND	DTT1, DFT2	DTT1, DFT2	DTT1, DFT2	DFT2, XV5T2	XV5T2	US	
01	2-Input NAND OD*	-	DTT1, DFT2				-	_
02	2-Input NOR	DTT1, DFT2	DTT1, DFT2	DTT1, DFT2	DFT2, XV5T2	XV5T2	US	-
03	2-Input NOR OD*		DTT1, DFT2		7 -	-	-	-
04	Inverter	DTT1, DFT2	DTT1, DFT2	DTT1, DFT2	DFT2, XV5T2	XV5T2	DTT1, DFT2	US
U04	Inverter, Unbuffered	DTT1, DFT2	DTT1, DFT2	-	DFT2, XV5T2	-	DTT1, DFT2	-
05	Inverter OD*	-750	DTT1, DFT2	-	See "06"	-	See "06"	See "06"
06	Inverter OD*	The second	_	-	DFT2, XV5T2	-	DTT1, DFT2	US
07	Buffer OD*	-	DTT1, DFT2	-	DFT2, XV5T2	-	DTT1, DFT2	US
08	2-Input AND	DTT1, DFT2	DTT1, DFT2	DTT1, DFT2	DFT2, XV5T2	XV5T2	US	-
09	2-Input AND OD*	-	DTT1, DFT2	-	-	-	-	-
14	Inverter-Schmitt	DTT1, DFT2	DTT1, DFT2	DTT1, DFT2	DFT2, XV5T2	-	DTT1, DFT2	US
16	Buffer	-	See "50"	-	DFT2, XV5T2	XV5T2	DTT1, DFT2	US
17	Buffer-Schmitt	-	-	-	DFT2, XV5T2	-	DTT1, DFT2	US
18	1-of-2 Demux, 3-State	-	-	-	- 5 - 6	- 17	DFT2**	T. 101
19	1-of-2 Demux	-	-	-	-		DFT2**	Ar.
32	2-Input OR	DTT1, DFT2	DTT1, DFT2	DTT1, DFT2	DFT2, XV5T2	XV5T2	US	-
34	Buffer	-	-	0-11/6	See "16"	-	See "16"	See "16"
50	Buffer		DTT1, DFT2	DTT1, DFT2	See "16"	-	See "16"	See "16"
66	Analog Switch		DTT1, DFT2	DTT1, DFT2	-	-	NLAS323US	-
70	Buffer	115	See "1G50"	See "1GT50"	See "16"	-	See "16"	See "16"
74	D Flip-Flop	07257	_	-	US	-	See "SZ74"	-
86	2-Input XOR	-	DTT1, DFT2	DTT1, DFT2	DFT2	-	US	-
125	3-State Non-Inv Buffer, Low Enable	-	DTT1, DFT2	DTT1, DFT2	DFT2, XV5T2	-	US	-
126	3-State Non-Inv Buffer, High Enable	-	DTT1, DFT2	DTT1, DFT2	DFT2, XV5T2	-	US	-
132	2-Input NAND, Schmitt	-	DTT1, DFT2	-	-	-	74	-1
135	2-Input NAND, Schmitt OD*	-	DTT1, DFT2	-	-	-	S-B	27

DTT1 = TSOP-5, -6 (SOT-23); DFT2 = SC-88, SC-88A (SC-70, SOT-353, SOT-363); XV5T2 = SOT-553; US = Ultra-Small 8

* Open Drain

For up-to-date technical data sheets or additional information on these devices, please visit our website at www.onsemi.com/minigates. A CDROM containing the complete technical library for our MiniGate portfolio, including data sheets and application notes, is available from our Literature Distribution Center at 1-800-344-3860 (USA/Canada); or +1 303-675-2175; or via email at orderlit@onsemi.com. Request document number MINIGATECD/D.



Analog Switches from ON Semiconductor

Function	Device Number	Package(s)	Comments
1-Single Pole, Single Throw Switch	MC74VHC1G66	DTT1, DFT2	-
1-Single Pole, Single Throw Switch	MC74VHC1GT66	DTT1, DFT2	-
1-Single Pole, Single Throw Switch	NLAS4501	DTT1, DFT2	-
1-Single Pole, Single Throw Switch	NLAST4501	DTT1, DFT2	-
2-Single Pole, Single Throw Switches	NLAS323	US	_
2-Single Pole, Single Throw Switches	NLAS324	US	_
2-Single Pole, Single Throw Switches	NLAS325	US	-
2:1 Mux with Enable	NLAS1053	US	-
1-Single Pole, Dual Throw Switch	NLAS4599	DTT1, DFT2	_
1-Single Pole, Dual Throw Switch	NLAST4599	DTT1, DFT2	-
1-Single Pole, Dual Throw Switch	NLASB3157	DFT2	_
2-Dual Pole, Dual Throw Switches	NLAS44599	MNR2, DTR2	-
2-Dual Pole, Dual Throw Switches	NLAST44599	MNR2, DTR2	-
2-Single Pole, Dual Throw Switches	NLAS4684	MNR2, FCT, MR2	Ultra Low RDS(ON)
2-Single Pole, Dual Throw Switches	NLAS4685	MNR2, FCT, MR2	Ultra Low RDS(ON)
2-Single Pole, Single Throw Switches	NLAS2066	US	Analog OVT
2-Single Pole, Single Throw Switches	NL7WB66	US	_

DTT1 = TSOP-5, -6 (SOT-23); DFT2 = SC-88, SC-88A (SC-70, SOT-353, SOT-363); US = Ultra-Small 8; MNR2 = Quad Flat No-Lead FCT = Flip-Chip; MR2 = Micro10; OVT = Over-Voltage Tolerant

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