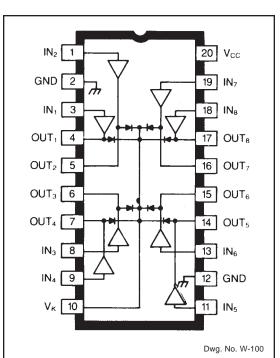
# 8-CHANNEL SATURATED SINK DRIVERS



#### ABSOLUTE MAXIMUM RATINGS at T<sub>A</sub> = + 25°C

OutputVoltage,V <sub>CE</sub> 50 V
Output Current, I <sub>OUT</sub>
(UDN2596A) 500 mA
(UDN2597A) 1.0 A
Supply Voltage, V <sub>CC</sub> 7.0 V
Input Voltage, V <sub>IN</sub> 7.0 V
Package Power Dissipation,
P <sub>D</sub> 2.27 W*
Operating Temperature Range,
T <sub>A</sub> 20°C to +85°C
Storage Temperature Range,
T <sub>S</sub> 65°C to +150°C
*Derate at the rate of 18.2 mW/°C above
$T_A = +25^{\circ}C$

Low output-saturation voltages at high load currents are provided by UDN2596A and UDN2597A sink driver ICs. These devices can be used as interface buffers between standard low-power digital logic (particularly MOS) and high-power loads such as relays, solenoids, stepping motors, and LED or incandescent displays. The eight saturated sink drivers in each device feature high-voltage, high-current open-collector outputs. Transient suppression clamp diodes and a minimum 35 V output sustaining voltage allow their use with many inductive loads.

The saturated (non-Darlington) NPN outputs provide low collectoremitter voltage drops as well as improved turn-off times due to an active pull-down function within the output predrive section. The UDN2596A is for use with output loads to 500 mA while the UDN2597A is for use with loads to 1 A. Adjacent outputs may be paralleled for higher load currents.

Inputs require very low input current and are activated by a low logic level consistent with the much greater sinking capability associated with NMOS, CMOS, and TTL logic. The UDN2596A and UDN2597A are rated for use with 5 V logic levels.

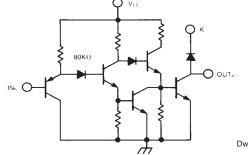
Both devices are furnished in 20-pin DIP packages with copper leadframes for improved thermal characteristics. The UDN2596A is also available for operation between -40°C and +85°C. To order, change the prefix from 'UDN' to 'UDQ'.

## FEATURES

Diodes

- Non-Inverting Function
- Low Output ON Voltages
- Up to 1.0 A Sink Capability
- 50 V Min. Output Breakdown
- Output Transient-Suppression
- Output Pull-Down for Fast Turn-Off
- TTL, CMOS Compatible Inputs
- Automotive Capable

# 

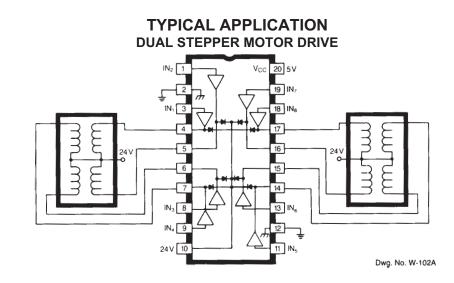






## ELECTRICAL CHARACTERISTICS at $T_A = +25^{\circ}C$ , $V_{CC} = 5.0 V$

				Limits		
Characteristics	Symbol	Applicable Devices	Test Conditions	Min.	Max.	Units
Output Leakage Current	I <sub>CEX</sub>	Both	V <sub>OUT</sub> = 50 V, V <sub>IN</sub> = 2.4 V		10	μA
Output Sustaining Voltage	V <sub>CE(sus)</sub>	UDN2596A	l <sub>OUT</sub> = 300 mA, L = 2 mH	35	_	V
		UDN2597A	l <sub>OUT</sub> = 750 mA, L = 2 mH	35	_	V
Output Saturation Voltage	V <sub>CE(SAT)</sub>	UDN2596A	l <sub>OUT</sub> = 300 mA		0.5	V
		UDN2597A	l <sub>OUT</sub> = 750 mA		1.0	V
Clamp Diode Leakage Current	I <sub>R</sub>	Both	V <sub>R</sub> = 50 V		10	μA
Clamp Diode Forward Voltage	V <sub>F</sub>	UDN2596A	l <sub>F</sub> = 300 mA		1.8	V
		UDN2597A	l <sub>F</sub> = 750 mA		1.8	V
Logic Input Current	I <sub>IN(0)</sub>	UDN2956A	V <sub>IN</sub> = 0.8 V		-15	μA
		UDN2597A	V <sub>IN</sub> = 0.8 V		-50	μA
	I <sub>IN(1)</sub>	Both	V <sub>IN</sub> = 2.4 V		10	μA
Supply Current	I <sub>CC(ON)</sub>	UDN2596A	any one driver V <sub>IN</sub> = 0.8 V		6.0	mA
	``´´	UDN2597A	any one driver V <sub>IN</sub> = 0.8 V		31	mA
	I <sub>CC(OFF)</sub>	UDN2596A	all drivers V <sub>IN</sub> = 2.4 V	0.75	1.3	mA
	、 <i>、</i> /	UDN2597A	all drivers V <sub>IN</sub> = 2.4 V	0.75	15	mA
Turn-On Delay	t <sub>pd0</sub>	Both	0.5 E <sub>IN</sub> to 0.5 E <sub>OUT</sub>	_	3.0	μs
Turn-Off Delay	t <sub>pd1</sub>	Both	0.5 E <sub>IN</sub> to 0.5 E <sub>OUT</sub>		2.0	μs



### RECOMMENDED OPERATING CONDITIONS

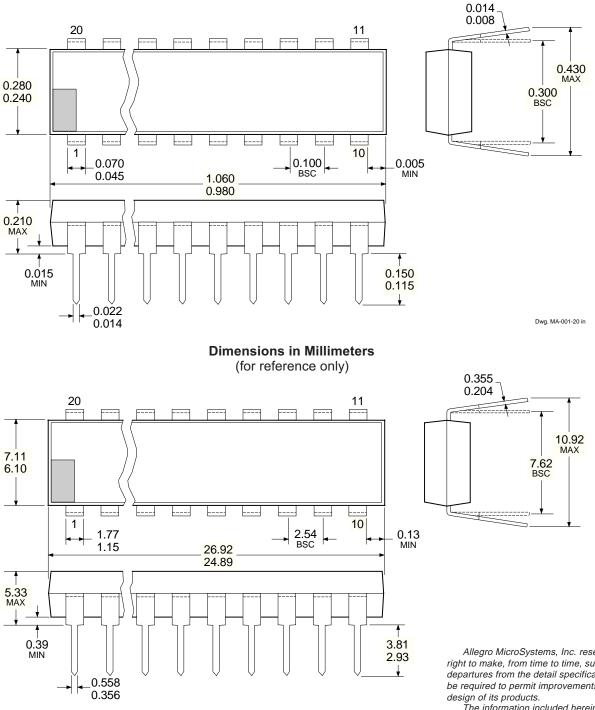
Type Number	Logic	Ι <sub>ουτ</sub>
UDN2596A	5.0 V	300 mA
UDN2597A	5.0 V	750 mA

Note: Pins 2 and 12 must both be connected to power ground.



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# 2596 AND 2597 8-CHANNEL SATURATED SINK DRIVERS



**Dimensions in Inches** (controlling dimensions)

NOTES: 1. Exact body and lead configuration at vendor's option within limits shown. 2. Lead spacing tolerance is non-cumulative.

3. Lead thickness is measured at seating plane or below.

Allegro MicroSystems, Inc. reserves the right to make, from time to time, such departures from the detail specifications as may be required to permit improvements in the

The information included herein is believed to be accurate and reliable. However, Allegro MicroSystems, Inc. assumes no responsibility for its use; nor for any infringements of patents or other rights of third parties which may result from its use.

## POWER SINK DRIVERS SELECTION GUIDE

	Output Ratings *		Features						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				Serial	Latched	Diode	Saturated	Internal	
30   32   X   X   -   -   -   -   5832     250   135   7   -   -   X   -   7003     300   45   1   Hall Sensor/Driver   X   -   X   5140     50   7   -   -   X   -   X   5140     50   8   -   -   X   -   2003   505     50   8   -   -   X   -   2803     50   8   -   -   X   X   2596     60   4   -   -   X   X   2557     95   7   -   -   X   X   2557     95   8   -   -   X   -   2023     95   8   -   X   -   -   2804     50   8   -   X   -   -   5801     50   8   X   X   -   -   5821     50   8   X	mA	V	#	Input	Drivers	Clamp	Outputs	Protection	Part Number <sup>†</sup>
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						_		-	
300   45   1   Hall Sensor/Driver   X   -   X   5140     50   8   -   -   X   -   -   2003     60   2   Hall Sensor/Driver   -   X   -   -   5275     60   4   -   -   X   -   -   2023     95   8   -   -   -   -   2023     95   8   -   -   X   -   -   28623     350   50   4   -   X   -   -   5801     50   8   X   X   -   -   5821     80   8   X   X   -   -   5824     95   7   -   -   X   -   204 </td <td></td> <td>40</td> <td>32</td> <td>Х</td> <td>Х</td> <td>_</td> <td>Х</td> <td>-</td> <td>5832</td>		40	32	Х	Х	_	Х	-	5832
	250	135	7	_	_	Х	_	-	7003
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	300	45		Ha	all Sensor/Drive		_	Х	
50   8   -   -   X   -   2596     60   2   Hall Sensor/Driver   -   X   X   2575     95   7   -   -   X   X   2557     95   7   -   -   X   X   2257     95   8   -   -   X   -   -   2023     350   50   4   -   X   -   -   2823     50   8   -   -   X   -   -   2804     50   8   -   -   X   -   -   5801     50   8   X   X   -   -   5821   581     50   8   X   X   -   -   5822   59     50   8   X   X   X   -   -   5842     95   7   -   -   X   -   2024     95   8   -   -   X   X   2547     600   4				_	-		_	-	
60   2   Hall Sensor/Driver   X   -   5275     60   4   -   -   X   X   2557     95   8   -   -   X   -   -   2023     95   8   -   -   X   -   -   2823     350   50   4   -   X   -   -   2004     50   8   -   -   X   -   -   2004     50   8   -   -   X   -   -   5801     50   8   -   X   -   -   5821     50   8   X   X   -   -   5822     50   8   X   X   -   -   5842     95   7   -   -   X   -   2624     95   8   -   -   X   X   2547     600   60   4   -   -   -   X   X   2547     900   14   2				_	-			-	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				_	-			-	
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95   8   -   -   X   -   -   2823     350   50   4   -   X   X   -   -   2804     50   8   -   -   X   -   -   2804     50   8   -   X   X   -   -   5801     50   8   -   X   X   -   -   5801     50   8   X   X   -   -   5821     80   8   X   X   -   -   5822     50   8   X   X   X   -   -   5822     50   8   X   X   X   -   -   5822     50   8   -   -   X   -   -   2624     95   7   -   -   X   X   2547     600   60   4   -   -   X   X   2547     900   14   2   Hall Sensor/Driver   X   X   X   <		60	4	_	-		Х	Х	2557
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508-XX5801508XX5821808XX5822508XXX5841808XXX5842957X2024958X28244503028Dual 4 to 14-Line Decoder/Driver6817600604XXX2549700604XX2549750508XX2597900142Hall Sensor/DriverXXX3625262Hall Sensor/DriverXXX36261000464Stepper Motor Controller/DriverMOS-70421250504X1500804X1600509XX2064 and 206815004X2064 and 20681600509XX25441600504X1800504 <t< td=""><td></td><td></td><td></td><td>_</td><td>-</td><td></td><td>_</td><td>-</td><td></td></t<>				_	-		_	-	
50   8   X   X   -   -   -   5821     80   8   X   X   -   -   -   5822     50   8   X   X   X   -   -   5841     80   8   X   X   X   -   -   5842     95   7   -   -   X   -   -   2024     95   8   -   -   X   -   -   2024     95   8   -   -   X   -   -   2824     450   30   28   Dual 4 to 14-Line Decoder/Driver   -   -   6817     600   60   4   -   -   X   X   2547     600   60   4   -   -   X   X   2549     700   60   4   -   -   X   X   3625     750   50   8   -   -   X   X   3626     1000   46   4   Stepper Motor Controller/D		50	8	-			-	-	2804
808XX $    5822$ 508XXX $  5841$ 808XXX $  5842$ 957 $ -$ X $  2024$ 958 $ -$ X $  2824$ 4503028Dual 4 to 14-Line Decoder/Driver $  6817$ 604 $ -$ XX $2547$ $60$ 4 $ -$ XX $2543$ 700604 $ -$ XX $2543$ 700604 $ -$ XX $2543$ 700608 $ -$ XX $2543$ 900142Hall Sensor/DriverXXX $3625$ 262Hall Sensor/DriverXXX $3626$ 1000464Stepper Motor Controller/DriverMOS $ 7042$ 1250504Stepper Motor Translator/Driver $   2064$ and 2068150080 $4$ $  X$ $  2544$ 1600509 $X$ $X$ $   2544$ 3000464Stepper Motor Controller/DriverMOS $  2544$ 300046 $  X$				_		Х	-	-	
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95   8   -   -   X   -   -   2824     450   30   28   Dual 4 to 14-Line Decoder/Driver   -   -   6817     600   60   4   -   -   -   X   X   2547     600   60   4   -   -   X   X   2547     60   4   -   -   X   X   2549     700   60   4   -   -   X   X   2543 and 2559     750   50   8   -   -   X   X   -   2597     900   14   2   Hall Sensor/Driver   X   X   3625     1000   46   4   Stepper Motor Controller/Driver   MOS   -   7024 and 7029     1200   46   4   Microstepping Controller/Driver   MOS   -   7042     1250   50   4   Stepper Motor Translator/Driver   -   -   2064 and 2068     1500   80   4   -   -   X   -   -   206		80	8	Х	Х	Х	_	_	5842
450   30   28   Dual 4 to 14-Line Decoder/Driver   -   -   6817     600   60   4   -   -   X   X   2547     60   4   -   -   X   X   2547     60   4   -   -   X   X   2549     700   60   4   -   -   X   X   2543 and 2559     750   50   8   -   -   X   X   -   2597     900   14   2   Hall Sensor/Driver   X   X   X   3625     26   2   Hall Sensor/Driver   X   X   X   3626     1000   46   4   Stepper Motor Controller/Driver   MOS   -   7024 and 7029     1200   46   4   Microstepping Controller/Driver   MOS   -   7042     1250   50   4   -   -   X   -   -   2064 and 2068     1500   80   4   -   -   X   -   -   2065 and 2069		95	7	_	_	Х	_	_	2024
600     60     4     -     -     -     X     X     2547       60     4     -     -     X     X     X     2549       700     60     4     -     -     X     X     X     2543 and 2559       750     50     8     -     -     X     X     -     2597       900     14     2     Hall Sensor/Driver     X     X     X     3625       26     2     Hall Sensor/Driver     X     X     X     3626       1000     46     4     Stepper Motor Controller/Driver     MOS     -     7024 and 7029       1200     46     4     Microstepping Controller/Driver     MOS     -     7042       1250     50     4     Stepper Motor Translator/Driver     -     X     5804       50     4     -     -     X     -     -     2064 and 2068       1500     80     4     -     -     X     -<		95	8	_	_		_	_	
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60     4     -     -     X     X     X     X     2549       700     60     4     -     -     X     X     X     2543 and 2559       750     50     8     -     -     X     X     -     2597       900     14     2     Hall Sensor/Driver     X     X     X     3625       26     2     Hall Sensor/Driver     X     X     X     3626       1000     46     4     Stepper Motor Controller/Driver     MOS     -     7024 and 7029       1200     46     4     Microstepping Controller/Driver     MOS     -     7042       1250     50     4     Stepper Motor Translator/Driver     -     X     5804       50     4     -     -     X     -     -     2064 and 2068       1500     80     4     -     -     X     -     -     2544       50     4     -     -     X     - <td>600</td> <td>60</td> <td>4</td> <td>_</td> <td>_</td> <td>_</td> <td>Х</td> <td>Х</td> <td>2547</td>	600	60	4	_	_	_	Х	Х	2547
750   50   8   -   -   X   X   -   2597     900   14   2   Hall Sensor/Driver   X   X   X   3625     26   2   Hall Sensor/Driver   X   X   X   3626     1000   46   4   Stepper Motor Controller/Driver   MOS   -   7024 and 7029     1200   46   4   Microstepping Controller/Driver   MOS   -   7042     1200   46   4   Stepper Motor Translator/Driver   -   X   5804     1250   50   4   Stepper Motor Translator/Driver   -   -   2064 and 2068     1500   80   4   -   -   X   -   -   2065 and 2069     1600   50   9   X   X   -   -   -   2544     50   4   -   -   X   -   -   2544     1600   50   9   X   X   -   -   2540     3000   46   4   Stepper Motor Controller/Driver <td></td> <td></td> <td></td> <td>_</td> <td>_</td> <td>Х</td> <td></td> <td></td> <td></td>				_	_	Х			
900   14   2   Hall Sensor/Driver   X   X   X   X   3625     1000   46   4   Stepper Motor Controller/Driver   MOS   -   7024 and 7029     1200   46   4   Microstepping Controller/Driver   MOS   -   7042     1200   46   4   Microstepping Controller/Driver   MOS   -   7042     1250   50   4   Stepper Motor Translator/Driver   -   X   5804     50   4   -   -   X   -   -   2064 and 2068     1500   80   4   -   -   X   -   -   2065 and 2069     1600   50   9   X   X   -   -   -   2544     1800   50   4   -   -   X   -   -   2540     3000   46   4   Stepper Motor Controller/Driver   MOS   -   7026     46   4   Stepper Motor Controller/Driver   MOS   -   7026     46   4   Stepper Motor Controll	700	60	4	_	_	Х	Х	Х	2543 and 2559
26     2     Hall Sensor/Driver     X     X     X     3626       1000     46     4     Stepper Motor Controller/Driver     MOS     -     7024 and 7029       1200     46     4     Microstepping Controller/Driver     MOS     -     7042       1200     50     4     Stepper Motor Translator/Driver     -     X     5804       1250     50     4     -     -     X     -     -     2064 and 2068       1500     80     4     -     -     X     -     -     2065 and 2069       1600     50     9     X     X     -     -     2544       1800     50     4     -     -     X     -     -     2540       3000     46     4     Stepper Motor Controller/Driver     MOS     -     7026       4000     50     4     -     -     X     -     7044       4000     50     4     -     -     X	750	50	8	_	_	Х	Х	_	2597
26     2     Hall Sensor/Driver     X     X     X     3626       1000     46     4     Stepper Motor Controller/Driver     MOS     -     7024 and 7029       1200     46     4     Microstepping Controller/Driver     MOS     -     7042       1200     50     4     Stepper Motor Translator/Driver     -     X     5804       1250     50     4     -     -     X     -     -     2064 and 2068       1500     80     4     -     -     X     -     -     2065 and 2069       1600     50     9     X     X     -     -     2544       1800     50     4     -     -     X     -     -     2540       3000     46     4     Stepper Motor Controller/Driver     MOS     -     7026       4000     50     4     -     -     X     -     7044       4000     50     4     -     -     X	900	14	2	Ha	all Sensor/Drive	r X	Х	Х	3625
1200   46   4   Microstepping Controller/Driver   MOS   -   7042     1250   50   4   Stepper Motor Translator/Driver   -   X   5804     50   4   -   -   X   -   -   2064 and 2068     1500   80   4   -   -   X   -   -   2065 and 2069     1600   50   9   X   X   -   -   X   5829     1800   50   4   -   -   X   -   -   2544     50   4   -   -   X   -   -   2544     50   4   -   -   X   -   -   2540     3000   46   4   Stepper Motor Controller/Driver   MOS   -   7026     46   4   Microstepping Controller/Driver   MOS   -   7044     4000   50   4   -   -   X   -   -   2878									
1250   50   4   Stepper Motor Translator/Driver   -   X   5804     50   4   -   -   X   -   -   2064 and 2068     1500   80   4   -   -   X   -   -   2065 and 2069     1600   50   9   X   X   -   -   X   5829     1800   50   4   -   -   X   -   -   2544     50   4   -   -   X   -   -   2544     50   4   -   -   X   -   -   2540     3000   46   4   Stepper Motor Controller/Driver   MOS   -   7026     46   4   Microstepping Controller/Driver   MOS   -   7044     4000   50   4   -   -   X   -   -   2878	1000	46	4	Step	per Motor Contr	oller/Drive	er MOS	_	7024 and 7029
50   4   -   -   X   -   -   2064 and 2068     1500   80   4   -   -   X   -   -   2065 and 2069     1600   50   9   X   X   -   -   X   5829     1800   50   4   -   -   X   -   -   2544     50   4   -   -   X   -   -   2540     3000   46   4   Stepper Motor Controller/Driver   MOS   -   7026     46   4   Microstepping Controller/Driver   MOS   -   7044     4000   50   4   -   -   X   -   -   2878	1200	46	4	Micro	stepping Contr	oller/Drive	er MOS	_	7042
50   4   -   -   X   -   -   2064 and 2068     1500   80   4   -   -   X   -   -   2065 and 2069     1600   50   9   X   X   -   -   X   5829     1800   50   4   -   -   X   -   -   2544     50   4   -   -   X   -   -   2540     3000   46   4   Stepper Motor Controller/Driver   MOS   -   7026     46   4   Microstepping Controller/Driver   MOS   -   7044     4000   50   4   -   -   X   -   -   2878	1250	50	4	Step	per Motor Trans	lator/Driv	er –	Х	5804
1500     80     4     -     -     X     -     -     2065 and 2069       1600     50     9     X     X     -     -     X     5829       1800     50     4     -     -     X     -     -     2544       50     4     -     -     X     -     -     2540       3000     46     4     Stepper Motor Controller/Driver     MOS     -     7026       46     4     Microstepping Controller/Driver     MOS     -     7044       4000     50     4     -     -     X     -     -     2878									
1600     50     9     X     X     -     -     X     5829       1800     50     4     -     -     X     -     -     2544       50     4     -     -     X     -     -     2540       3000     46     4     Stepper Motor Controller/Driver     MOS     -     7026       46     4     Microstepping Controller/Driver     MOS     -     7044       4000     50     4     -     -     X     -     -     2878	1500		4	_	_	Х	_	_	
1800     50     4     -     -     X     -     -     2544       50     4     -     -     X     -     -     2540       3000     46     4     Stepper Motor Controller/Driver MOS     -     7026       46     4     Microstepping Controller/Driver MOS     -     7044       4000     50     4     -     -     X     -     -     2878			9	Х	Х		_	Х	
50 4 - - X - - 2540   3000 46 4 Stepper Motor Controller/Driver MOS - 7026   46 4 Microstepping Controller/Driver MOS - 7044   4000 50 4 - - X - - 2878									
46     4     Microstepping Controller/Driver     MOS     -     7044       4000     50     4     -     -     X     -     -     2878				-	_		_	_	
46     4     Microstepping Controller/Driver     MOS     -     7044       4000     50     4     -     -     X     -     -     2878	3000	46	4	Step	per Motor Contr	oller/Drive	er MOS	-	7026
		46	4					_	
80 4 – – X – – 2879	4000	50	4	_	_	Х	_	_	2878
		80	4	_	_		_	_	

#### IN ORDER OF 1) OUTPUT CURRENT, 2) OUTPUT VOLTAGE, 3) NUMBER OF DRIVERS

\* Current is maximum specified test condition, voltage is maximum rating. See specification for sustaining voltage limits or over-current protection voltage limits.

Complete part number includes additional characters to indicate operating temperature range and package style.

