SCLS330G - MARCH 1996 - REVISED JANUARY 2000

26 2D8

25 🛛 2CLK

208 23

<ul> <li>Members of the Texas Instruments Widebus™ Family</li> <li>EPIC™ (Enhanced-Performance Implanted)</li> </ul>	SN54AHC16374 WD PACKAGE SN74AHC16374 DGG, DGV, OR DL PACKAGE (TOP VIEW)
CMOS) Process	
<ul> <li>Operating Range 2-V to 5.5-V V<sub>CC</sub></li> </ul>	
• 3-State Outputs Drive Bus Lines Directly	1Q2 3 46 1D2
• Distributed V <sub>CC</sub> and GND Pins Minimize	GND <b>[]</b> 4 45 <b>[</b> ] GND
High-Speed Switching Noise	1Q3 5 44 1D3
• Flow-Through Architecture Optimizes PCB	1Q4 6 43 1D4
Layout	$V_{CC}$
• Latch-Up Performance Exceeds 250 mA Per	
JESD 17	1Q6 9 40 1D6 GND 10 39 GND
ESD Protection Exceeds 2000 V Per	
MIL-STD-883, Method 3015; Exceeds 200 V	1Q7 L 11 38 L 1D7 1Q8 L 12 37 L 1D8
Using Machine Model (C = 200 pF, R = 0)	2Q1 13 36 2D1
Package Options Include Plastic Shrink	2Q2 14 35 2D2
Small-Outline (DL), Thin Shrink	GND 🛛 15 34 🗍 GND
Small-Outline (DGG), and Thin Very	2Q3 🛛 16 33 🗍 2D3
Small-Outline (DGV) Packages and 380-mil	2Q4 🛛 17 32 🖓 2D4
Fine-Pitch Ceramic Flat (WD) Package	V <sub>CC</sub> [] 18 31 [] V <sub>CC</sub>
Using 25-mil Center-to-Center Spacings	2Q5 19 30 2D5
description	2Q6 20 29 2D6
description	GND 21 28 GND
The 'AHC16374 devices are 16-bit	2Q7 22 27 2D7

edge-triggered D-type flip-flops with 3-state outputs designed specifically for driving highly capacitive or relatively low-impedance loads. They are particularly suitable for implementing buffer registers, I/O ports, bidirectional bus drivers, and working registers.

These devices can be used as two 8-bit flip-flops or one 16-bit flip-flop. On the positive transition of the clock (CLK) input, the Q outputs of the flip-flop take on the logic levels at the data (D) inputs.

A buffered output-enable ( $\overline{OE}$ ) input can be used to place the eight outputs in either a normal logic state (high or low logic levels) or the high-impedance state. In the high-impedance state, the outputs neither load nor drive the bus lines significantly. The high-impedance state and the increased drive provide the capability to drive bus lines without need for interface or pullup components.

To ensure the high-impedance state during power up or power down,  $\overline{OE}$  should be tied to V<sub>CC</sub> through a pullup resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver.

OE does not affect internal operations of the flip-flop. Old data can be retained or new data can be entered while the outputs are in the high-impedance state.

The SN54AHC16374 is characterized for operation over the full military temperature range of  $-55^{\circ}$ C to  $125^{\circ}$ C. The SN74AHC16374 is characterized for operation from  $-40^{\circ}$ C to  $85^{\circ}$ C.



Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

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#### FUNCTION TABLE (each 8-bit flip-flop)

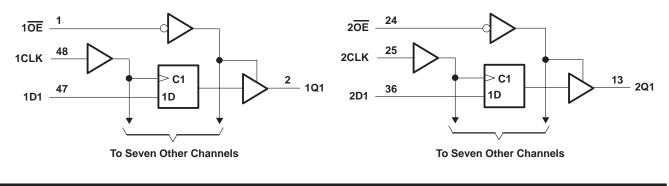
	INPUTS	OUTPUT	
OE	CLK	D	Q
L	$\uparrow$	Н	Н
L	$\uparrow$	L	L
L	H or L	Х	Q <sub>0</sub>
Н	Х	Х	Z

#### logic symbol<sup>†</sup>

			_	
1 <mark>0E</mark>	1	1EN		
1CLK	48	> C1		
2 <mark>0E</mark>	24	2EN		
2CLK	25	> C2		
ZULK				
1D1	47	1D 1	<b>⊥</b> ⊽	2 1Q1
1D2	46		<u> </u>	3 1Q2
1D3	44		-	5 1Q3
1D4	43		_	6 1Q4
1D5	41			8 1Q5
1D6	40			9 1Q6
1D7	38			11 1Q7
1D8	37			12 1Q8
2D1	36	2D 2	▽	13 2Q1
2D1	35	20 2	V	14 2Q2
2D2	33			16 2Q3
2D3	32			17 2Q4
2D4 2D5	30		_	19 2Q5
2D5 2D6	29		-	20 20 2Q6
	27			22
2D7	26		_	2Q7 23 208
2D8				2Q8

<sup>†</sup> This symbol is in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12.

#### logic diagram (positive logic)





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#### absolute maximum ratings over operating free-air temperature range (unless otherwise noted)<sup>†</sup>

$\begin{array}{llllllllllllllllllllllllllllllllllll$	5 V to 7 V C + 0.5 V 20 mA . ±20 mA . ±25 mA . ±75 mA . 70°C/W . 58°C/W . 63°C/W
Storage temperature range, T <sub>stg</sub> 65°C	

<sup>†</sup> Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

NOTES: 1. The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

2. The package thermal impedance is calculated in accordance with JESD 51.

#### recommended operating conditions (see Note 3)

			SN54AH	C16374	SN74AH0	C16374	UNIT	
			MIN	MAX	MIN	MAX	UNIT	
VCC	Supply voltage		2	5.5	2	5.5	V	
		V <sub>CC</sub> = 2 V	1.5		1.5			
VIH	High-level input voltage	V <sub>CC</sub> = 3 V	2.1		2.1		V	
		V <sub>CC</sub> = 5.5 V	3.85		3.85			
		V <sub>CC</sub> = 2 V		0.5		0.5		
VIL	Low-level input voltage	V <sub>CC</sub> = 3 V		0.9		0.9	V	
		V <sub>CC</sub> = 5.5 V		1.65		1.65		
VI	Input voltage	-	00	5.5	0	5.5	V	
VO	Output voltage		Ó	Vcc	0	Vcc	V	
		V <sub>CC</sub> = 2 V	20	-50		-50	μΑ	
ЮН	High-level output current	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$	20	-4		-4	4	
		$V_{CC} = 5 V \pm 0.5 V$	4	-8		-8	mA	
		V <sub>CC</sub> = 2 V		50		50	μΑ	
IOL	Low-level output current	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$		4		4		
		$V_{CC} = 5 V \pm 0.5 V$		8		8	mA	
		$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$		100		100		
$\Delta t / \Delta v$	Input transition rise or fall rate	$V_{CC} = 5 V \pm 0.5 V$		20		20	ns/V	
TA	Operating free-air temperature	-	-55	125	-40	85	°C	

NOTE 3: All unused inputs of the device must be held at V<sub>CC</sub> or GND to ensure proper device operation. Refer to the TI application report, Implications of Slow or Floating CMOS Inputs, literature number SCBA004.



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# electrical characteristics over recommended operating free-air temperature range (unless otherwise noted)

PARAMETER	TEST CONDITIONS	Vee	T <sub>A</sub> = 25°C			SN54AHC	C16374	SN74AHC16374		UNIT	
FARAMETER	TEST CONDITIONS	Vcc	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT	
		2 V	1.9	2		1.9		1.9			
	I <sub>OH</sub> = -50 μA	3 V	2.9	3		2.9		2.9			
Vон		4.5 V	4.4	4.5		4.4		4.4		V	
	I <sub>OH</sub> = -4 mA	3 V	2.58			2.48		2.48			
	I <sub>OH</sub> = -8 mA	4.5 V	3.94			3.8	M:	3.8			
		2 V			0.1		\$0.1		0.1		
	I <sub>OL</sub> = 50 μA	3 V			0.1	40	0.1		0.1		
VOL		4.5 V			0.1	6	0.1		0.1	V	
	I <sub>OL</sub> = 4 mA	3 V			0.36	20	0.5		0.44		
	I <sub>OL</sub> = 8 mA	4.5 V			0.36	80	0.5		0.44		
lj	$V_{I} = V_{CC}$ or GND	0 V to 5.5 V			±0.1	Y	±1*		±1	μΑ	
I <sub>OZ</sub>	$V_{O} = V_{CC}$ or GND	5.5 V			±0.25		±2.5		±2.5	μA	
ICC	$V_{I} = V_{CC} \text{ or GND},  I_{O} = 0$	5.5 V			4		40		40	μΑ	
Ci	V <sub>I</sub> = V <sub>CC</sub> or GND	5 V		2.5	10				10	pF	
Co	$V_{O} = V_{CC}$ or GND	5 V		3.5						pF	

\* On products compliant to MIL-PRF-38535, this parameter is not production tested at  $V_{CC} = 0$  V.

# timing requirements over recommended operating free-air temperature range, $V_{CC}$ = 3.3 V $\pm$ 0.3 V (unless otherwise noted) (see Figure 1)

		T <sub>A</sub> = 25°C		SN54AHC16374		SN74AHC16374		UNIT
		MIN	MAX	MIN	МАХ	MIN	MAX	UNIT
tw	Pulse duration, CLK high or low	5		5.5	N.N	5.5		ns
t <sub>su</sub>	Setup time, data before CLK↑	4.5		4		4		ns
th	Hold time, data after CLK↑	2		2		2		ns

# timing requirements over recommended operating free-air temperature range, $V_{CC}$ = 5 V $\pm$ 0.5 V (unless otherwise noted) (see Figure 1)

		T <sub>A</sub> = 25°C		<sub>A</sub> = 25°C SN54AHC16374		SN74AHC16374		UNIT
		MIN	MAX	MIN	MAX	MIN	MAX	UNIT
tw	Pulse duration, CLK high or low	5		5	N.N	5		ns
t <sub>su</sub>	Setup time, data before CLK↑	3		3		3		ns
th	Hold time, data after CLK↑	2		2		2		ns



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# switching characteristics over recommended operating free-air temperature range, $V_{CC}$ = 3.3 V $\pm$ 0.3 V (unless otherwise noted) (see Figure 1)

00	-		, (		-	•						
DADAMETED	FROM	то	LOAD	Т	<b>Δ = 25°C</b>	;	SN54AH0	216374	SN74AHC	16374		
PARAMETER	(INPUT)	(OUTPUT)	CAPACITANCE	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT	
£			C <sub>L</sub> = 15 pF	80*	130*		70*		70		MHz	
f <sub>max</sub>			C <sub>L</sub> = 50 pF	55	85		50		50		IVILL	
<sup>t</sup> PLH	CLK	Q	Ci - 15 pF		9*	15*	1*	17*	1	17	20	
<sup>t</sup> PHL	ULK	Q	C <sub>L</sub> = 15 pF		9*	15*	1*	17*	1	17	17 ns	
<sup>t</sup> PZH	OE	Q	Ci - 15 pE		8*	13*	1*	15*	1	15	ns	
<sup>t</sup> PZL	ÛE	Q	Q	C <sub>L</sub> = 15 pF		8*	13*	1*	15*	1	15	115
<sup>t</sup> PHZ	OE	Q	C <sub>L</sub> = 15 pF		9*	14*	1*6	16*	1	16	ns	
<sup>t</sup> PLZ	ÛE	Q	CL = 15 pr		10*	14*	10	16*	1	16	115	
<sup>t</sup> PLH	CLK	Q	CL = 50 pF		10.6	16.2	20	18.5	1	18.5	ns	
<sup>t</sup> PHL	OLK	Q	CL = 30 pr		10.6	16.2	0 1 V	18.5	1	18.5	115	
<sup>t</sup> PZH	OE	Q	C <sub>I</sub> = 50 pF		9.6	14.9	<b>X</b> 1	16	1	16	ns	
<sup>t</sup> PZL	ÛE	Q	CL = 30 pr		9.6	14.9	1	16	1	16	115	
<sup>t</sup> PHZ	OE	Q	C <sub>L</sub> = 50 pF		10.2	15.5	1	17	1	17	ns	
<sup>t</sup> PLZ	UE		0L = 30 pr		11.8	15.5	1	17	1	17	115	
<sup>t</sup> sk(o)			CL = 50 pF			1.5**				1.5	ns	

\* On products compliant to MIL-PRF-38535, this parameter is not production tested.

\*\* On products compliant to MIL-PRF-38535, this parameter does not apply.

# switching characteristics over recommended operating free-air temperature range, $V_{CC}$ = 5 V $\pm$ 0.5 V (unless otherwise noted) (see Figure 1)

DADAMETED	FROM	то	LOAD	T,	T <sub>A</sub> = 25°C		SN54AH	C16374	SN74AHC16374		UNIT		
PARAMETER	(INPUT)	(OUTPUT)	CAPACITANCE	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT		
f			C <sub>L</sub> = 15 pF	130*	185*		110*		110		MHz		
fmax			CL = 50 pF	85	120		75		75		IVITZ		
<sup>t</sup> PLH	CLK	Q	C <sub>I</sub> = 15 pF		5.4*	9.1*	1*	10.1*	1	10.1	ns		
<sup>t</sup> PHL	ULK	Q	CL = 15 pr		5.4*	9.1*	1*	10.1*	1	10.1	115		
<sup>t</sup> PZH	OE	Q	C <sub>I</sub> = 15 pF		5.1*	9.1*	1*	10.1*	1	10.1	ns		
<sup>t</sup> PZL	ÛE	Q	CL = 15 pr		5.1*	9.1*	1*	10.1*	1	10.1	0.1		
<sup>t</sup> PHZ	OE	Q	C <sub>I</sub> = 15 pF		5*	9.5*	1*	710.5*	1	10.5	ns		
<sup>t</sup> PLZ	ÛE	Q	Q	Q	CL = 15 pr		5*	9.5*	10	10.5*	1	10.5	115
<sup>t</sup> PLH	CLK	Q	C <sub>I</sub> = 50 pF		6.9	10.1	20	11.5	1	11.5	ns		
<sup>t</sup> PHL	ULK	Q	CL = 50 pr		6.9	10.1	0 4 1	11.5	1	11.5	115		
<sup>t</sup> PZH	OE	Q	C <sub>I</sub> = 50 pF		6.6	10.1	<b>v</b> 1	11.5	1	11.5	20		
<sup>t</sup> PZL	ÛE	Q	CL = 50 pr		6.6	10.1	1	11.5	1	11.5	11.5 ns		
<sup>t</sup> PHZ	05	0	$C_{1} = 50 \text{ pF}$		6.1	10.5	1	11.5	1	11.5	ns		
<sup>t</sup> PLZ	OE	Q	$C_L = 50 \text{ pF}$		6.1	10.5	1	11.5	1	11.5	115		
<sup>t</sup> sk(o)			CL = 50 pF			1**				1	ns		

\* On products compliant to MIL-PRF-38535, this parameter is not production tested.

\*\* On products compliant to MIL-PRF-38535, this parameter does not apply.



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# noise characteristics, V\_{CC} = 5 V, C\_L = 50 pF, T\_A = 25 $^{\circ}\text{C}$ (see Note 4)

PARAMETER		SN74AHC16374			
FARAIVIETER	MIN	TYP	MAX	UNIT	
Quiet output, maximum dynamic V <sub>OL</sub>		0.36	0.8	V	
Quiet output, minimum dynamic V <sub>OL</sub>		-0.16	-0.8	V	
Quiet output, minimum dynamic V <sub>OH</sub>		4.6		V	
High-level dynamic input voltage	3.5			V	
Low-level dynamic input voltage			1.5	V	
	Quiet output, minimum dynamic V <sub>OL</sub> Quiet output, minimum dynamic V <sub>OH</sub> High-level dynamic input voltage	PARAMETER       MIN         Quiet output, maximum dynamic V <sub>OL</sub> Quiet output, minimum dynamic V <sub>OL</sub> Quiet output, minimum dynamic V <sub>OH</sub> High-level dynamic input voltage       3.5	PARAMETER       MIN       TYP         Quiet output, maximum dynamic V <sub>OL</sub> 0.36         Quiet output, minimum dynamic V <sub>OL</sub> -0.16         Quiet output, minimum dynamic V <sub>OH</sub> 4.6         High-level dynamic input voltage       3.5	PARAMETER       MIN       TYP       MAX         Quiet output, maximum dynamic V <sub>OL</sub> 0.36       0.8         Quiet output, minimum dynamic V <sub>OL</sub> -0.16       -0.8         Quiet output, minimum dynamic V <sub>OH</sub> 4.6       -0.16         High-level dynamic input voltage       3.5       -0.16	

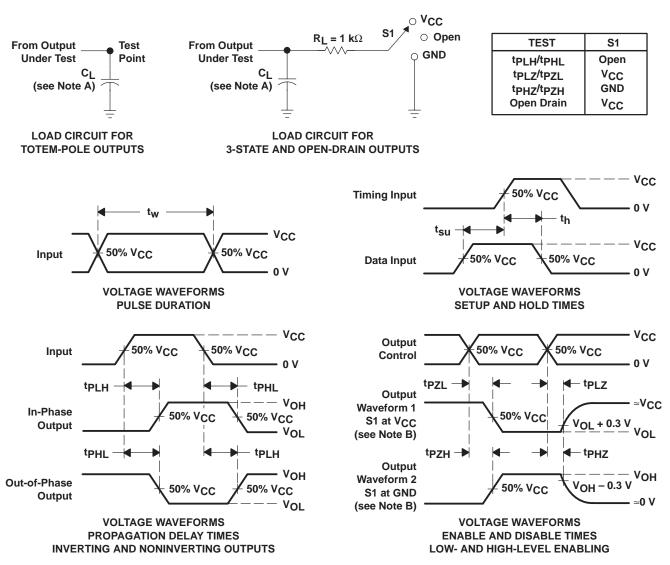
NOTE 4: Characteristics are for surface-mount packages only.

#### operating characteristics, V<sub>CC</sub> = 5 V, T<sub>A</sub> = 25°C

PARAMETER	TEST CONDITIONS	TYP	UNIT
C <sub>pd</sub> Power dissipation capacitance	No load, f = 1 MHz	32	pF



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#### PARAMETER MEASUREMENT INFORMATION

NOTES: A. C<sub>1</sub> includes probe and jig capacitance.

- B. Waveform 1 is for an output with internal conditions such that the output is low except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high except when disabled by the output control.
- C. All input pulses are supplied by generators having the following characteristics: PRR  $\leq$  1 MHz, Z<sub>O</sub> = 50  $\Omega$ , t<sub>f</sub>  $\leq$  3 ns, t<sub>f</sub>  $\leq$  3 ns.
- D. The outputs are measured one at a time with one input transition per measurement.

Figure 1. Load Circuit and Voltage Waveforms





#### **PACKAGING INFORMATION**

Orderable part number	Status	Material type	Package   Pins	Package qty   Carrier	RoHS	Lead finish/	MSL rating/	Op temp (°C)	Part marking
	(1)	(2)			(3)	Ball material	Peak reflow		(6)
						(4)	(5)		
SN74AHC16374DGGR	Active	Production	TSSOP (DGG)   48	2000   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHC16374
SN74AHC16374DGGR.A	Active	Production	TSSOP (DGG)   48	2000   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHC16374
SN74AHC16374DGVR	Active	Production	TVSOP (DGV)   48	2000   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	HE374
SN74AHC16374DGVR.A	Active	Production	TVSOP (DGV)   48	2000   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	HE374
SN74AHC16374DL	Obsolete	Production	SSOP (DL)   48	-	-	Call TI	Call TI	-40 to 85	AHC16374
SN74AHC16374DLR	Active	Production	SSOP (DL)   48	1000   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHC16374
SN74AHC16374DLR.A	Active	Production	SSOP (DL)   48	1000   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AHC16374

<sup>(1)</sup> **Status:** For more details on status, see our product life cycle.

<sup>(2)</sup> **Material type:** When designated, preproduction parts are prototypes/experimental devices, and are not yet approved or released for full production. Testing and final process, including without limitation quality assurance, reliability performance testing, and/or process qualification, may not yet be complete, and this item is subject to further changes or possible discontinuation. If available for ordering, purchases will be subject to an additional waiver at checkout, and are intended for early internal evaluation purposes only. These items are sold without warranties of any kind.

<sup>(3)</sup> RoHS values: Yes, No, RoHS Exempt. See the TI RoHS Statement for additional information and value definition.

<sup>(4)</sup> Lead finish/Ball material: Parts may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead finish/Ball material values may wrap to two lines if the finish value exceeds the maximum column width.

<sup>(5)</sup> MSL rating/Peak reflow: The moisture sensitivity level ratings and peak solder (reflow) temperatures. In the event that a part has multiple moisture sensitivity ratings, only the lowest level per JEDEC standards is shown. Refer to the shipping label for the actual reflow temperature that will be used to mount the part to the printed circuit board.

<sup>(6)</sup> Part marking: There may be an additional marking, which relates to the logo, the lot trace code information, or the environmental category of the part.

Multiple part markings will be inside parentheses. Only one part marking contained in parentheses and separated by a "~" will appear on a part. If a line is indented then it is a continuation of the previous line and the two combined represent the entire part marking for that device.

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## PACKAGE OPTION ADDENDUM

23-May-2025



Texas

STRUMENTS

#### TAPE AND REEL INFORMATION





#### QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal												
Device	Package Type	Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74AHC16374DGVR	TVSOP	DGV	48	2000	330.0	16.4	7.1	10.2	1.6	12.0	16.0	Q1
SN74AHC16374DLR	SSOP	DL	48	1000	330.0	32.4	11.35	16.2	3.1	16.0	32.0	Q1



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# PACKAGE MATERIALS INFORMATION

24-Jul-2025



\*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74AHC16374DGVR	TVSOP	DGV	48	2000	353.0	353.0	32.0
SN74AHC16374DLR	SSOP	DL	48	1000	356.0	356.0	53.0

DL (R-PDSO-G48)

PLASTIC SMALL-OUTLINE PACKAGE



- A. All linear dimensions are in inches (millimeters).B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion not to exceed 0.006 (0,15).
- D. Falls within JEDEC MO-118

PowerPAD is a trademark of Texas Instruments.



## **MECHANICAL DATA**

PLASTIC SMALL-OUTLINE

MPDS006C - FEBRUARY 1996 - REVISED AUGUST 2000

#### DGV (R-PDSO-G\*\*)

24 PINS SHOWN



NOTES: A. All linear dimensions are in millimeters.

B. This drawing is subject to change without notice.

- C. Body dimensions do not include mold flash or protrusion, not to exceed 0,15 per side.
- D. Falls within JEDEC: 24/48 Pins MO-153

14/16/20/56 Pins – MO-194



# **PACKAGE OUTLINE**

### TSSOP - 1.2 mm max height

SMALL OUTLINE PACKAGE



NOTES:

- 1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.
  This drawing is subject to change without notice.
  This dimension does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not

- exceed 0.15 mm per side. 4. Reference JEDEC registration MO-153.



# **DGG0048A**

# DGG0048A

# **EXAMPLE BOARD LAYOUT**

### TSSOP - 1.2 mm max height

SMALL OUTLINE PACKAGE



NOTES: (continued)

5. Publication IPC-7351 may have alternate designs.

6. Solder mask tolerances between and around signal pads can vary based on board fabrication site.



# DGG0048A

# **EXAMPLE STENCIL DESIGN**

### TSSOP - 1.2 mm max height

SMALL OUTLINE PACKAGE



7. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate

design recommendations. 8. Board assembly site may have different recommendations for stencil design.



## **MECHANICAL DATA**

MTSS003D - JANUARY 1995 - REVISED JANUARY 1998

#### DGG (R-PDSO-G\*\*)

#### PLASTIC SMALL-OUTLINE PACKAGE

**48 PINS SHOWN** 



NOTES: A. All linear dimensions are in millimeters.

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold protrusion not to exceed 0,15.
- D. Falls within JEDEC MO-153



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