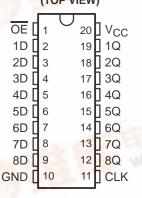
捷多邦,专业PCB打样ISN54LV574A中SN74LV574A OCTAL EDGE-TRIGGERED D-TYPE FLIP-FLOPS

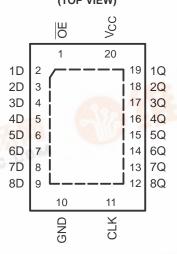
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- 2-V to 5.5-V V_{CC} Operation
- Max tod of 10 ns at 5 V
- Typical V_{OLP} (Output Ground Bounce) <0.8 V at $V_{CC} = 3.3 \text{ V}, T_A = 25^{\circ}\text{C}$
- Typical V_{OHV} (Output V_{OH} Undershoot) >2.3 V at V_{CC} = 3.3 V, T_A = 25°C
- **Support Mixed-Mode Voltage Operation on All Ports**
- Ioff Supports Partial-Power-Down Mode Operation
- Latch-Up Performance Exceeds 250 mA Per
- **ESD Protection Exceeds JESD 22**
 - 2000-V Human-Body Model (A114-A)
 - 200-V Machine Model (A115-A)
 - 1000-V Charged-Device Model (C101)

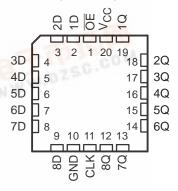
SN54LV574A . . . J OR W PACKAGE SN74LV574A . . . DB, DGV, DW, NS, **OR PW PACKAGE** (TOP VIEW)



SN74LV574A . . . RGY PACKAGE (TOP VIEW)



SN54LV574A . . . FK PACKAGE (TOP VIEW)



description/ordering information

ORDERING INFORMATION

TA	PACKA	GE [†]	ORDERABLE PART NUMBER	TOP-SIDE MARKING
Telescond and	QFN – RGY	Reel of 1000	SN74LV574ARGYR	LV574A
I SE MI	0010 014	Tube of 25	SN74LV574ADW	17/5744
	SOIC - DW	Reel of 2000	SN74LV574ADWR	LV574A
	SOP – NS	Reel of 2000	SN74LV574ANSR	74LV574A
4000 1- 0500	SSOP – DB	Reel of 2000	SN74LV574ADBR	LV574A
-40°C to 85°C		Tube of 70	SN74LV574APW	W.DZS
	TSSOP - PW	Reel of 2000	SN74LV574APWR	LV574A
		Reel of 250	SN74LV574APWT	
	TVSOP - DGV	Reel of 2000	SN74LV574ADGVR	LV574A
	VFBGA – GQN Reel of 1000		SN74LV574AGQNR	LV574A
COL PE	CDIP – J	Tube of 20	SNJ54LV574AJ	SNJ54LV574AJ
-55°C to 125°C	CFP – W	Tube of 85	SNJ54LV574AW	SNJ54LV574AW
	LCCC – FK	Tube of 55	SNJ54LV574AFK	SNJ54LV574AFK

[†] Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.

Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of



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description/ordering information (continued)

The 'LV574A devices are octal edge-triggered D-type flip-flops designed for 2-V to 5.5-V V_{CC} operation.

These devices feature 3-state outputs designed specifically for driving highly capacitive or relatively low-impedance loads. The devices are particularly suitable for implementing buffer registers, I/O ports, bidirectional bus drivers, and working registers.

On the positive transition of the clock (CLK) input, the Q outputs are set to the logic levels set up 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 high-impedance state. In the high-impedance state, the outputs neither load nor drive the bus lines significantly. The high-impedance state and increased drive provide the capability to drive bus lines without need for interface or pullup components.

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

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

These devices are fully specified for partial-power-down applications using I_{off}. The I_{off} circuitry disables the outputs, preventing damaging current backflow through the devices when they are powered down.

terminal assignments

	1	2	3	4
Α	1D	OE	VCC	1Q
В	3D	3Q	2D	2Q
С	5D	4D	5Q	4Q
D	7D	7Q	6D	6Q
Е	GND	8D	CLK	8Q

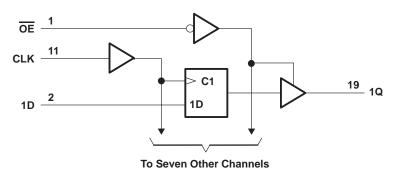
FUNCTION TABLE (each flip-flop)

	INPUTS		OUTPUT
OE	CLK	D	Q
L	1	Н	Н
L	\uparrow	L	L
L	H or L	Χ	Q_0
Н	Χ	Χ	Z



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logic diagram (positive logic)



Pin numbers shown are for the DB, DGV, DW, FK, J, NS, PW, RGY, and W packages.

absolute maximum ratings over operating free-air temperature range (unless otherwise noted)†

Supply voltage range, V _{CC} –0.5 V to 7 V
Input voltage range, V _I (see Note 1)
Voltage range applied to any output in the high-impedance
or power-off state, V _O (see Note 1)
Output voltage range applied in the high or low state, V _O (see Notes 1 and 2)0.5 V to V _{CC} + 0.5 V
Input clamp current, I_{IK} ($V_I < 0$)
Output clamp current, I_{OK} ($V_O < 0$)
Continuous output current, I_O ($V_O = 0$ to V_{CC})
Continuous current through V_{CC} or GND
Package thermal impedance, θ _{JA} (see Note 3): DB package
(see Note 3): DGV package 92°C/W
(see Note 3): DW package
(see Note 3): GQN package
(see Note 3): NS package 60°C/W
(see Note 3): PW package
(see Note 4): RGY package
Storage temperature range, T _{stg} –65°C to 150°C

[†] 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 negative-voltage ratings may be exceeded if the input and output current ratings are observed.

- 2. This value is limited to 5.5 V maximum.
- 3. The package thermal impedance is calculated in accordance with JESD 51-7.
- 4. The package thermal impedance is calculated in accordance with JESD 51-5.



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recommended operating conditions (see Note 5)

			SN54L	V574A	SN74L	V574A	
			MIN	MAX	MIN	MAX	UNIT
Vcc	Supply voltage		2	5.5	2	5.5	V
		V _{CC} = 2 V	1.5		1.5		
l ,,	I Pale Javed Considerable and	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	V _{CC} × 0.7		$V_{CC} \times 0.7$		V
VIH	High-level input voltage	V _{CC} = 3 V to 3.6 V	V _{CC} ×0.7		V _{CC} ×0.7		V
		V _{CC} = 4.5 V to 5.5 V	V _{CC} ×0.7		V _{CC} ×0.7		
		V _{CC} = 2 V		0.5		0.5	
1/	Lauria de la contrata de	V _{CC} = 2.3 V to 2.7 V		$V_{CC} \times 0.3$		$V_{CC} \times 0.3$	V
VIL	Low-level input voltage	$V_{CC} = 3 \text{ V to } 3.6 \text{ V}$		$V_{CC} \times 0.3$		$V_{CC} \times 0.3$	V
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$		$V_{CC} \times 0.3$		$V_{CC} \times 0.3$	
VI	Input voltage		0	5.5	0	5.5	V
\/ -	Output valtage	High or low state	0	VCC	0	VCC	V
VO	Output voltage	3-state	0	5.5	0	5.5	V
		V _{CC} = 2 V		-50		-50	μΑ
	High level autout augrent	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	20	-2		-2	
Іон	High-level output current	$V_{CC} = 3 V \text{ to } 3.6 V$	20/	-8		-8	mA
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$	Q	-16		-16	
		V _{CC} = 2 V		50		50	μΑ
	Lauria and autorit arrows at	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		2		2	
lOL	Low-level output current	$V_{CC} = 3 \text{ V to } 3.6 \text{ V}$		8		8	mA
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$		16		16	
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		200		200	
Δt/Δν	Input transition rise or fall rate	$V_{CC} = 3 V \text{ to } 3.6 V$		100		100	ns/V
		$V_{CC} = 4.5 \text{ V to } 5.5 \text{ V}$		20		20	
TA	Operating free-air temperature		-55	125	-40	85	°C

NOTE 5: All unused inputs of the device must be held at V_{CC} or GND to ensure proper device operation. Refer to the TI application report, Implications of Slow or Floating CMOS Inputs, literature number SCBA004.

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

DADAMETED	TEST COMPLETIONS	.,	SN54	4LV574A		SN74	LV574A	١	
PARAMETER	TEST CONDITIONS	VCC	MIN	TYP	MAX	MIN	TYP	MAX	UNIT
	I _{OH} = -50 μA	2 V to 5.5 V	V _{CC} -0.1			V _{CC} -0.1			
M	$I_{OH} = -2 \text{ mA}$	2.3 V	2			2			.,
VOH	$I_{OH} = -8 \text{ mA}$	3 V	2.48			2.48			V
	$I_{OH} = -16 \text{ mA}$	4.5 V	3.8	N. S.		3.8			
	I _{OL} = 50 μA	2 V to 5.5 V		,S	0.1			0.1	
V	I _{OL} = 2 mA	2.3 V		Q.	0.4			0.4	.,
V_{OL}	I _{OL} = 8 mA	3 V	ć	1	0.44			0.44	V
	I _{OL} = 16 mA	4.5 V	200		0.55			0.55	
lį	$V_I = 5.5 \text{ V or GND}$	0 to 5.5 V	06		±1			±1	μΑ
IOZ	$V_O = V_{CC}$ or GND	5.5 V	Q.		±5			±5	μΑ
ICC	$V_I = V_{CC}$ or GND, $I_O = 0$	5.5 V		_	20			20	μΑ
l _{off}	V_I or $V_O = 0$ to 5.5 V	0			5			5	μΑ
Ci	$V_I = V_{CC}$ or GND	3.3 V		1.8			1.8	·	pF



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timing requirements over recommended operating free-air temperature range, V_{CC} = 2.5 V \pm 0.2 V (unless otherwise noted) (see Figure 1)

	PARAMETER		T _A = 25°C		SN54LV574A		SN74LV574A		
	PARAMETER		MIN	MAX	MIN	MAX	MIN	MAX	UNIT
t _W	Pulse duration	CLK high or low	7		7	10,11	7		ns
t _{su}	Setup time	High or low before CLK↑	5.5		5.5	N.	5.5		ns
th	Hold time	Data after CLK↑	2		2		2		ns

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

	DADAMETED				SN54LV574A		SN74LV574A		LINIT
	PARAMETER			MAX	MIN	MAX	MIN	MAX	UNIT
t _W	Pulse duration	CLK high or low	5		5	100	5		ns
t _{su}	Setup time	High or low before CLK↑	3.5		3.5	IL	3.5		ns
t _h	Hold time	Data after CLK↑	1.5		1.5		1.5		ns

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

	PARAMETER				SN54LV574A		SN74LV574A		LINUT
	PARAMETER			MAX	MIN	MAX	MIN	MAX	UNIT
t _W	Pulse duration	CLK high or low	5		5	JON 1	5		ns
t _{su}	Setup time	High or low before CLK↑	3.5		3.5	11/2	3.5		ns
th	Hold time	Data after CLK↑	1.5		1.5		1.5		ns

switching characteristics over recommended operating free-air temperature range, V_{CC} = 2.5 V \pm 0.2 V (unless otherwise noted) (see Figure 1)

242445	FROM	то	LOAD	T,	ղ = 25°C	;	SN54L\	/574A	SN74L\	/574A	
PARAMETER	(INPUT)	(OUTPUT)	(OUTPUT) CAPACITANCE		TYP	MAX	MIN	MAX	MIN	MAX	UNIT
,			C _L = 15 pF	60*	100*		50*		50		N 41 1-
f _{max}			C _L = 50 pF	50	85		40	N	40		MHz
t _{pd}	CLK	Q			9.6*	16.6*	1*	20*	1	20	
t _{en}	ŌĒ	Q	C _L = 15 pF		9.2*	16.1*	1* 2	19*	1	19	ns
^t dis	ŌĒ	Q			6.5*	12.8*	10	15*	1	15	
^t pd	CLK	Q			11.6	19.6	70	23	1	23	
t _{en}	ŌĒ	Q	0 50 5		10.9	19	Q 1	22	1	22	
^t dis	ŌE	Q	C _L = 50 pF		8.4	17.5	1	20	1	20	ns
^t sk(o)						2	·		·	2	

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



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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)

DADAMETED	FROM	то	LOAD	T,	4 = 25°C	;	SN54L	V574A	SN74L\	/574A	
PARAMETER	(INPUT)	(OUTPUT)	CAPACITANCE	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
,			C _L = 15 pF	80*	145*		65*		65		N 41 1-
f _{max}			C _L = 50 pF	50	120		45		45		MHz
^t pd	CLK	Q			6.8*	13.2*	1*	15.5*	1	15.5	
t _{en}	ŌE	Q	C _L = 15 pF		6.4*	12.8*	1*	¥15*	1	15	ns
^t dis	ŌE	Q			4.8*	13*	1*	15*	1	15	
t _{pd}	CLK	Q			8.1	16.7	3	19	1	19	
t _{en}	ŌE	Q	0 50 - 5		7.7	16.3	01	18.5	1	18.5	
^t dis	ŌĒ	Q	$C_L = 50 pF$		6.1	15	Q 1	17	1	17	ns
tsk(o)						1.5				1.5	

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

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 _A = 25°C			SN54L	V574A	SN74LV574A		
PARAMETER	(INPUT)	(OUTPUT)	CAPACITANCE	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
,			C _L = 15 pF	130*	205*		110*		110		N 41 1-
f _{max}			C _L = 50 pF	85	175		75		75		MHz
^t pd	CLK	Q			4.8*	8.6*	1*	10*	1	10	
ten	ŌĒ	Q	C _L = 15 pF		4.6*	9*	1*	10.5*	1	10.5	ns
^t dis	ŌĒ	Q			3.5*	9*	1*	10.5*	1	10.5	
t _{pd}	CLK	Q			5.7	10.6	3	12	1	12	
t _{en}	ŌĒ	Q	0 50 5		5.5	11	0 1	12.5	1	12.5	
^t dis	ŌĒ	Q	$C_L = 50 pF$		4.1	10.1	Q 1	11.5	1	11.5	ns
tsk(o)						1				1	

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

noise characteristics, V_{CC} = 3.3 V, C_L = 50 pF, T_A = 25°C (see Note 6)

	PARAMETER		SN74LV574A		
			TYP	MAX	UNIT
VOL(P)	Quiet output, maximum dynamic V _{OL}		0.7	0.8	V
V _{OL(V)}	Quiet output, minimum dynamic V _{OL}		-0.6	-0.8	V
V _{OH(V)}	Quiet output, minimum dynamic V _{OH}		2.8		V
VIH(D)	High-level dynamic input voltage	2.31		·	V
V _{IL(D)}	Low-level dynamic input voltage			0.99	V

NOTE 6: Characteristics are for surface-mount packages only.

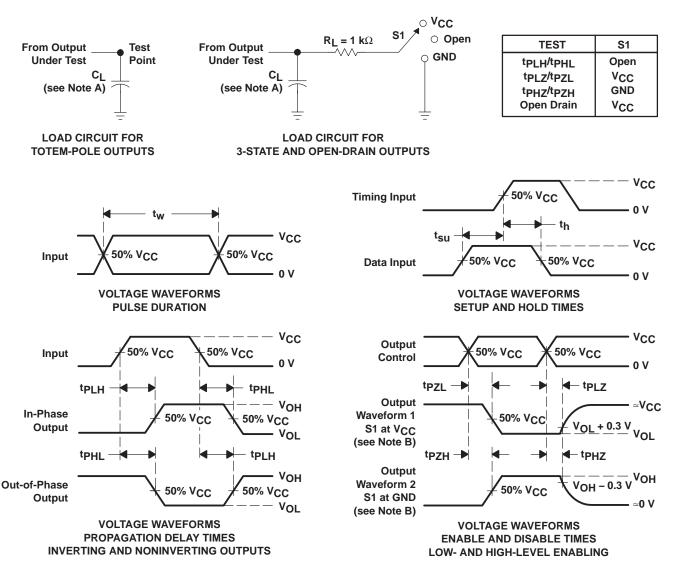
operating characteristics, T_A = 25°C

	PARAMETER			TEST CONDITIONS		VCC	TYP	UNIT
	<u> </u>	Outrute explicit	C 50 pE	_ = 50 pF, f = 10 MHz	3.3 V	20.4	pF	
Cpd	Power dissipation capacitance	Outputs enabled	CL = 50 pr,		5 V	23.8		



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PARAMETER MEASUREMENT INFORMATION



NOTES: A. C_L 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, $Z_Q = 50 \Omega$, $t_f \leq$ 3 ns, $t_f \leq$ 3 ns.
- D. The outputs are measured one at a time, with one input transition per measurement.
- E. tpLz and tpHz are the same as tdis.
- F. tpzL and tpzH are the same as ten.
- G. t_{PHL} and t_{PLH} are the same as t_{pd} .
- H. All parameters and waveforms are not applicable to all devices.

Figure 1. Load Circuit and Voltage Waveforms







com 24-Oct-2005

PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
SN74LV574ADBR	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV574ADBRE4	ACTIVE	SSOP	DB	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV574ADGVR	ACTIVE	TVSOP	DGV	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV574ADGVRE4	ACTIVE	TVSOP	DGV	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV574ADW	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV574ADWE4	ACTIVE	SOIC	DW	20	25	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV574ADWR	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV574ADWRE4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV574AGQNR	ACTIVE	VFBGA	GQN	20	1000	TBD	SNPB	Level-1-240C-UNLIM
SN74LV574ANSR	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV574ANSRE4	ACTIVE	SO	NS	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV574APW	ACTIVE	TSSOP	PW	20	70	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV574APWE4	ACTIVE	TSSOP	PW	20	70	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV574APWR	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV574APWRE4	ACTIVE	TSSOP	PW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV574APWT	ACTIVE	TSSOP	PW	20	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV574APWTE4	ACTIVE	TSSOP	PW	20	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LV574ARGYR	ACTIVE	QFN	RGY	20	1000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1YEAR
SN74LV574ARGYRG4	ACTIVE	QFN	RGY	20	1000	TBD	Call TI	Call TI

⁽¹⁾ The marketing status values are defined as follows:

ACTIVE: Product device recommended for new designs.

LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

PREVIEW: Device has been announced but is not in production. Samples may or may not be available.

OBSOLETE: TI has discontinued the production of the device.

TBD: The Pb-Free/Green conversion plan has not been defined.

Pb-Free (RoHS): TI's terms "Lead-Free" or "Pb-Free" mean semiconductor products that are compatible with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI Pb-Free products are suitable for use in specified lead-free processes.

Green (RoHS & no Sb/Br): TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame

⁽²⁾ Eco Plan - The planned eco-friendly classification: Pb-Free (RoHS) or Green (RoHS & no Sb/Br) - please check http://www.ti.com/productcontent for the latest availability information and additional product content details.



PACKAGE OPTION ADDENDUM

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retardants (Br or Sb do not exceed 0.1% by weight in homogeneous material)

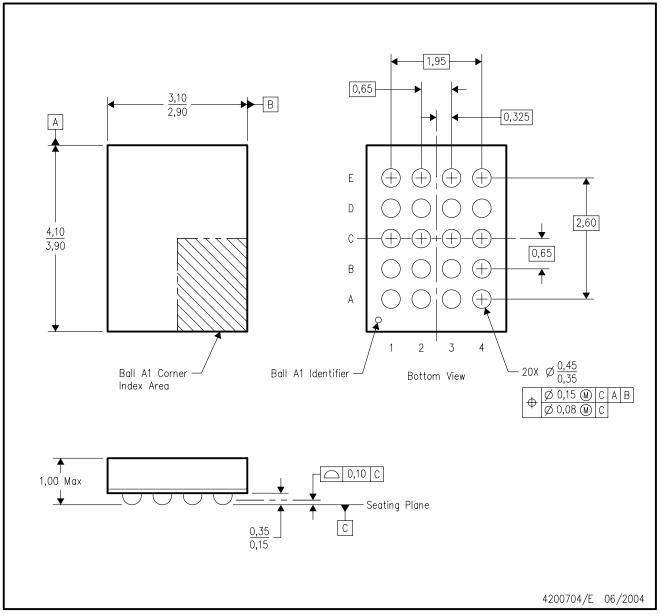
(3) MSL, Peak Temp. -- The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

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GQN (R-PBGA-N20)

PLASTIC BALL GRID ARRAY



NOTES:

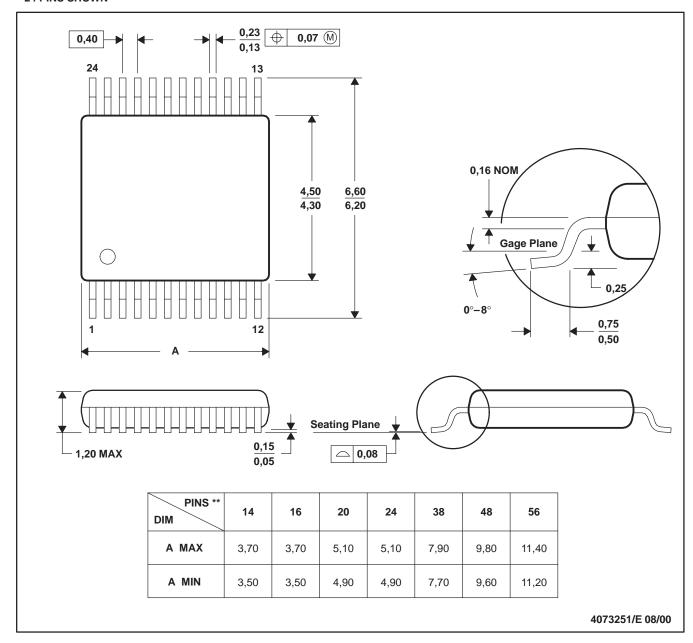
- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Falls within JEDEC MO-225 variation BC.
- D. This package is tin-lead (SnPb). Refer to the 20 ZQN package (drawing 4204492) for lead-free.



DGV (R-PDSO-G**)

24 PINS SHOWN

PLASTIC SMALL-OUTLINE



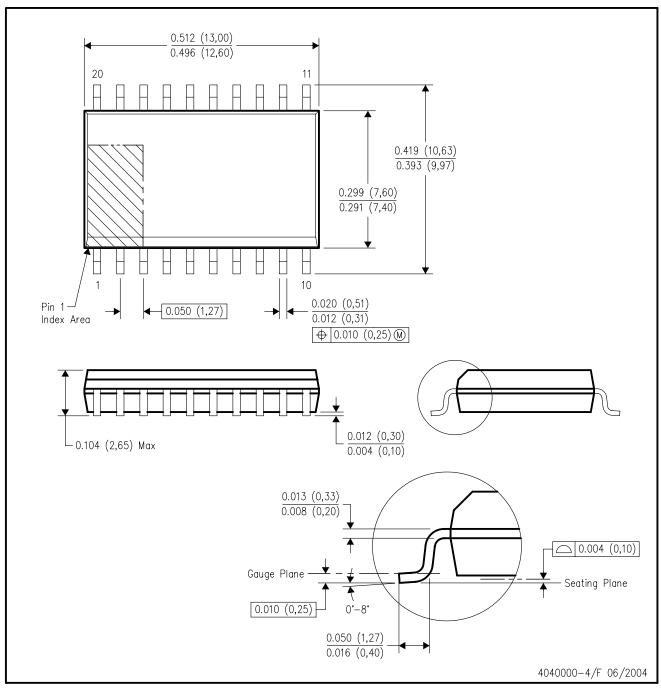
NOTES: A. All linear dimensions are in millimeters.

- 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



DW (R-PDSO-G20)

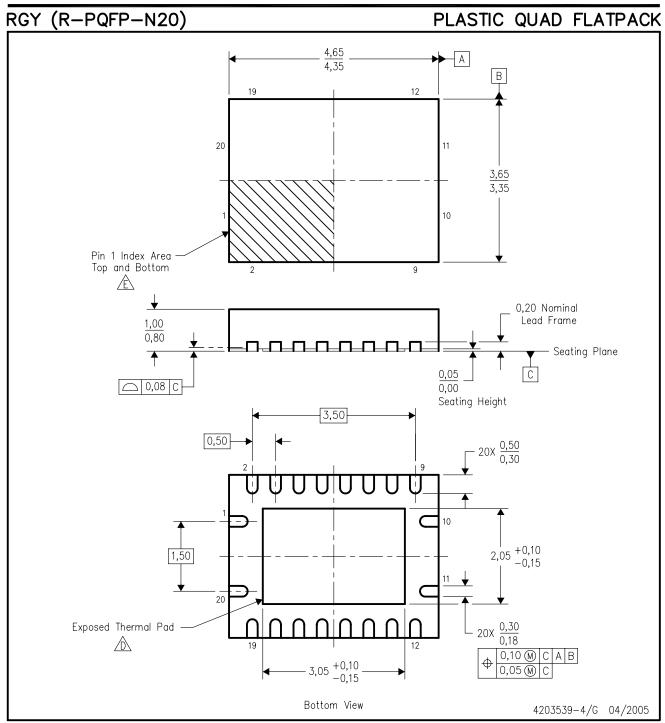
PLASTIC SMALL-OUTLINE PACKAGE



NOTES:

- 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 MS-013 variation AC.





NOTES: A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M-1994.

- B. This drawing is subject to change without notice.
- C. QFN (Quad Flatpack No-Lead) package configuration.
- The package thermal pad must be soldered to the board for thermal and mechanical performance.
- Pin 1 identifiers are located on both top and bottom of the package and within the zone indicated. The Pin 1 identifiers are either a molded, marked, or metal feature.
- F. Package complies to JEDEC MO-241 variation BC.



MECHANICAL DATA

NS (R-PDSO-G**)

14-PINS SHOWN

PLASTIC SMALL-OUTLINE PACKAGE



NOTES:

- . 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.



DB (R-PDSO-G**)

PLASTIC SMALL-OUTLINE

28 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.
- D. Falls within JEDEC MO-150



PW (R-PDSO-G**)

14 PINS SHOWN

PLASTIC SMALL-OUTLINE PACKAGE



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.

D. Falls within JEDEC MO-153

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