SDLS036 - DECEMBER 1983 - REVISED MARCH 1988

- Package Options Include Plastic "Small Outline" Packages, Ceramic Chip Carriers, and Plastic and Ceramic DIPs
- Dependable Texas Instruments Quality and Reliability

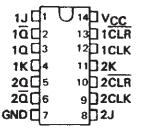
description

The '107 contain two independent J-K flip-flops with individual J-K, clock, and direct clear inputs. The '107 is a positive pulse-triggered flip-flop. The J-K input data is loaded into the master while the clock is high and transferred to the slave and the outputs on the high-to-low clock transistion. For these devices the J and K inputs must be stable while the clock is high.

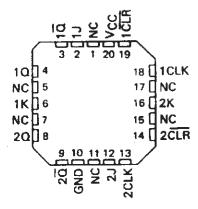
The LS107A contain two independent negative-edge-triggered flip-flops. The J and K inputs must be stable prior to the high-to-low clock transition for predictable operation. When the clear is low, it overrides the clock and data inputs forcing the Q output low and the $\overline{\rm Q}$ output high.

The SN54107 and the SN54LS107A are characterized for operation over the full military temperature range of —55°C to 125°C. The SN74107 and the SN74LS107A are characterized for operation from 0°C to 70°C.

SN54107, SN54LS107A . . . J PACKAGE SN74107 . . . N PACKAGE SN74LS107A . . . D OR N PACKAGE (TOP VIEW)



SN54LS107A . . . FK PACKAGE (TOP VIEW)



NC - No internal connection

'107
FUNCTION TABLE

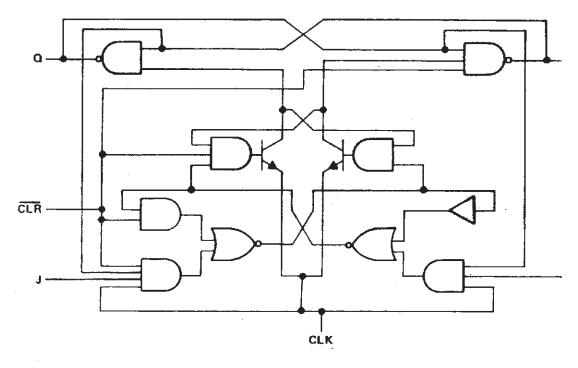
	INPU	TS		OUTF	UTS
CLR	CLK	J	κ	Q	ā
Ł	Х	Х	Х	L	Н
н	n	L	L	O _O	$\vec{\alpha}_0$
н	T	Н	L	Н	L
н	. 1	L	н	L	Н
н	л	Н	н	TOG	GLE

'LS 107A FUNCTION TABLE

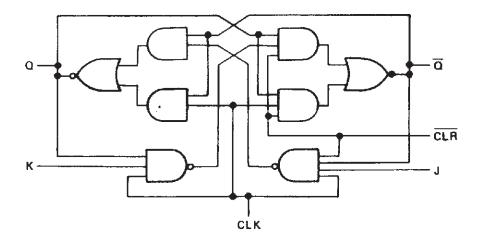
	INPU	TS		OUT	PUTS
CLR	CLK	J	К	α	ā
L	×	×	Х	L	H
н	1	L	L	σ0	$\bar{\mathbf{q}}_0$
н	4	Н	L	н	L
н	4	L	Н	L	H
H-	4	H.	Н	TOG	GLE
Н	Н	х	X	a ₀	\overline{a}_0



logic diagrams (positive logic)

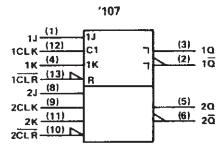


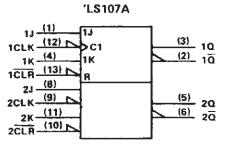
'LS107A



SDLS036 - DECEMBER 1983 - REVISED MARCH 1988

logic symbols†



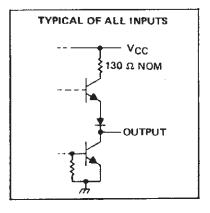


[†]These symbols are in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12. Pin numbers shown are for D, J, and N packages.

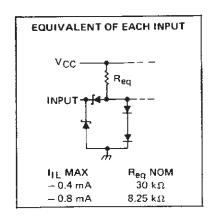
schematic of inputs and outputs

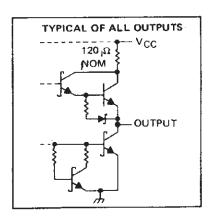
EQUIVALENT OF EACH INPUT Vcc INPUT IIL MAX Req NOM - 1.6 mA 4kΩ - 3.2 mA $2 k\Omega$





'LS107A





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

Supply voltage, VCC (see Note 1)	7 V
Input voltage: '107	5.5 V
(1.51074)	
Operating free-air temperature range: SN54'	— 55°C to 125°C
SN74'	0 6 10 70 6
Storage temperature range	– 65°C to 150°C

NOTE 1: Voltage values are with respect to network ground terminal.



SDLS036 - DECEMBER 1983 - REVISED MARCH 1988

recommended operating conditions

				SN5410)7		SN7410	17	
			MIN	NOM	MAX	MIN	NOM	MAX	UNIT
Vcc	Supply voltage	<u> </u>	4.5	5	5.5	4.75	5	5.25	V
VIH	High-level input voltage		2			2			V
VIL	Low-level input voltage				8.0			8.0	V
Юн	High-level output current				- 0.4			- 0.4	mA
loL	Low-level output current				16			16	mA
		CLK high	20			20			
t _{vv}	Pulse duration	CLK low	47			47			ns
		CLR low	25			25	-		1
tsu	Input setup time before CLK1		0	•		0			ns
t _h	Input hold time-data after CLK1		0			0			ns
TA	Operating free-air temperature		55		125	0		70	°C

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

DAG	AMETER		TEST CONDITIE	oust		SN5410	7		SN7410	7	
rar	AMETER	WELLET 1231 COMMITTORS				TYP‡	MAX	MIN	TYP‡	MAX	UNIT
VIK		V _{CC} = MIN,	I ₁ = — 12 mA				- 1,5			- 1.5	V
V _{OH}		V _{CC} = MIN, I _{OH} = 0.4 mA		VIL = 0.8 V,	2.4	3.4		2.4	3.4		V
VOL		V _{CC} = MIN, I _{OL} = 16 mA	V _{IH} = 2 V,	V _{IL} = 0.8 V,		0.2	0.4		0.2	0.4	٧
ł _j		V _{CC} = MAX,	V ₁ = 5.5 V				1			1	mA
l	J or K)/14AV	V = 2.4.V			•	40			40	
ΙН	All other	V _{CC} = MAX,	V ₁ = 2.4 V				80			80	μА
1	J or K	V - 14 A V	17 - 0.4 17				- 1.6			- 1.6	
Iτ	All other	V _{CC} = MAX,	V₁ = 0.4 V				- 3.2			- 3.2	mA
los§		V _{CC} = MAX			- 20		- 57	- 18		- 57	mA
lcc¶		V _{CC} = MAX,	See Note 2	·		10	20	·	10	20	mA

[†]For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.

NOTE 2: With all outputs open, I_{CC} is measured with the Q and \overline{Q} outputs high in turn. At the time of measurement, the clock input is

switching characteristics, V_{CC} = 5 V, T_A = 25°C (see note 3)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	TEST CONDITIONS	MIN	TYP	MAX	UNIT
f _{max}				15	20		MHz
[†] PLH	CLR	ā			16	25	ns
^t PHL	CLR	a	$R_{\perp} = 400 \Omega$, $C_{\perp} = 15 pF$		25	40	กร
^t PLH	0.14	QorQ			16	25	ns
tPHL .	CLK	u or u			25	40	ms

NOTE 3: Load circuits and voltage waveforms are shown in Section 1.



 $^{^{\}ddagger}$ All typical values are at V_{CC} = 5 V, T_A = 25° C.

Not more than one output should be shorted at a time.

Average per flip-flop.

recommended operating conditions

			S	N54LS1	07A	s	N74LS1	07A	UNIT
			MIN	NOM	MAX	MIN	NOM	MAX	UNIT
Vcc	Supply voitage		4.5	5	5.5	4.75	5	5.25	V
VIH	High-level input voltage		2			2			٧
VIL	Low-level input voltage				0.7			8.0	V
ГОН	High-level output current				- 0.4			- 0.4	mA
†OL	Low-level output current			•	4			8	mA
fclock	Clock frequency		0		30	0		30	MHz
	Prince to a series	CLK high	20			20			
^t w	Pulse duration	CLR low	25		:	25			ns
	0.16	data high or low	20			20			
t _{su}	Setup time before CLK #	CLR inactive	25			25			ศร
th	Hold time-data after CLK4	•	0			0			ns
TA	Operating free-air temperature		- 55		125	0		70	°C

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

			FOT COMPLETION	unt	SM	√54L\$10	7A	Sh	UNIT		
PA	RAMETER	'	EST CONDITION	NS'	MIN	TYP#	MAX	MIN	TYP‡	MAX	0.4
VIK		V _{CC} = MIN,	I _I = - 18 mA				- 1.5			– 1.5	>
Voн		V _{CC} = MIN, I _{OH} = - 0.4 mA	V _{IH} = 2 V,	VIL = MAX.	2.5	3.4		2.7	3.4		٧
.,		V _{CC} = MIN, I _{OL} = 4 mA	VIL = MAX,	V _{IH} = 2 V,		0.25	0.4		0.25	0.4	v
VOL		V _{CC} = MIN, I _{OL} = 8 mA	VIL = MAX,	V _{IH} = 2 V,					0.35	0.5	
	J or K						0.1			0.1	
I_{\parallel}	CLR	V _{CC} = MAX,	V _I = 7 V				0.3			0.3	mA
	CLK						0.4			0.4	
	J or K						20			20	
ΗН	CLR	V _{CC} = MAX,	V ₁ = 2.7 V				60			60	μΑ
	CLK	1					80			80	
	J or K	.,					- 0.4			- 0.4	mA
11L	CLR or CLK	V _{CC} = MAX,	V = U.4 V				8.0 –			0.8	100
IOS §	-	V _{CC} = MAX,	See Note 4		20		- 100	20		100	mΑ
	Total)	VCC = MAX,	See Note 2			4	6	Ī	4	6	mA

[†]For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.

‡ All typical values are at $V_{CC} = 5 \text{ V}$, $T_A = 25 ^{\circ} \text{C}$.

switching characteristics, $V_{CC} = 5 \text{ V}$, $T_A = 25^{\circ}\text{C}$ (see note 3)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	TEST COM	MIN	TYP	MAX	UNIT	
fmax					30	45		MHz
tPLH		. =	$R_L = 2 k\Omega$,	C _L = 15 pF		15	20	ns
^t PHL	CLR or CLK	Q or $\overline{\mathbf{Q}}$	-			15	20	ns

NOTE 3: Load circuits and voltage waveforms are shown in Section 1.



[§] Not more than one output should be shorted at a time, and the duration of the short circuit should not exceed one second.

NOTE 2: With all outputs open, I_{CC} is measured with the Q and Q, outputs high in turn. At the time of measurement, the clock input is grounded.

NOTE 4: For certain devices where state commutation can be caused by shorting an output to ground, an equivalent test may be performed with V_O = 2.25 V and 2.125 V for the 54 family and the 74 family, respectively, with the minimum and maximum limits reduced to one half of their stated values.





www.ti.com 6-Sep-2015

PACKAGING INFORMATION

Orderable Device	Status	Package Type	_	Pins	•	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking	Sample
	(1)		Drawing		Qty	(2)	(6)	(3)		(4/5)	
JM38510/00203BCA	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	-55 to 125	JM38510/ 00203BCA	Sample
M38510/00203BCA	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	-55 to 125	JM38510/ 00203BCA	Sample
M38510/00203BCA	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	-55 to 125	JM38510/ 00203BCA	Sample
SN54107J	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	-55 to 125	SN54107J	Sample
SN54107J	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	-55 to 125	SN54107J	Sample
SN74107N	OBSOLETE	PDIP	N	14		TBD	Call TI	Call TI	0 to 70	SN74107N	
SN74107N	OBSOLETE	PDIP	N	14		TBD	Call TI	Call TI	0 to 70	SN74107N	
SN74107N3	OBSOLETE	PDIP	N	14		TBD	Call TI	Call TI	0 to 70		
SN74107N3	OBSOLETE	PDIP	N	14		TBD	Call TI	Call TI	0 to 70		
SN74LS107AD	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	LS107A	Sample
SN74LS107AD	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	LS107A	Sampl
SN74LS107ADG4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	LS107A	Sampl
SN74LS107ADG4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	LS107A	Sampl
SN74LS107ADR	OBSOLETE	SOIC	D	14		TBD	Call TI	Call TI	0 to 70		
SN74LS107ADR	OBSOLETE	SOIC	D	14		TBD	Call TI	Call TI	0 to 70		
SN74LS107ADRE4	OBSOLETE	SOIC	D	14		TBD	Call TI	Call TI	0 to 70		
SN74LS107ADRE4	OBSOLETE	SOIC	D	14		TBD	Call TI	Call TI	0 to 70		
SN74LS107ADRG4	OBSOLETE	SOIC	D	14		TBD	Call TI	Call TI	0 to 70		
SN74LS107ADRG4	OBSOLETE	SOIC	D	14		TBD	Call TI	Call TI	0 to 70		
SN74LS107AN	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN74LS107AN	Sampl
SN74LS107AN	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN74LS107AN	Sampl
SN74LS107AN3	OBSOLETE	PDIP	N	14		TBD	Call TI	Call TI	0 to 70		



PACKAGE OPTION ADDENDUM

6-Sep-2015

Orderable Device	Status	Package Type	•	Pins	Package	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking	Samples
	(1)		Drawing		Qty	(2)	(6)	(3)		(4/5)	
SN74LS107AN3	OBSOLETE	PDIP	N	14		TBD	Call TI	Call TI	0 to 70		
SN74LS107ANSR	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	74LS107A	Samples
SN74LS107ANSR	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	74LS107A	Samples
SNJ54107J	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	-55 to 125	SNJ54107J	Samples
SNJ54107J	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	-55 to 125	SNJ54107J	Samples

(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.

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

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.

Pb-Free (RoHS Exempt): This component has a RoHS exemption for either 1) lead-based flip-chip solder bumps used between the die and package, or 2) lead-based die adhesive used between the die and leadframe. The component is otherwise considered Pb-Free (RoHS compatible) as defined above.

Green (RoHS & no Sb/Br): TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame 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.
- (4) There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.
- (5) Multiple Device Markings will be inside parentheses. Only one Device Marking contained in parentheses and separated by a "~" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Device Marking for that device.
- (6) Lead/Ball Finish Orderable Devices may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead/Ball Finish values may wrap to two lines if the finish value exceeds the maximum column width.



PACKAGE OPTION ADDENDUM

6-Sep-2015

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OTHER QUALIFIED VERSIONS OF SN54107, SN74107:

Catalog: SN74107

Military: SN54107

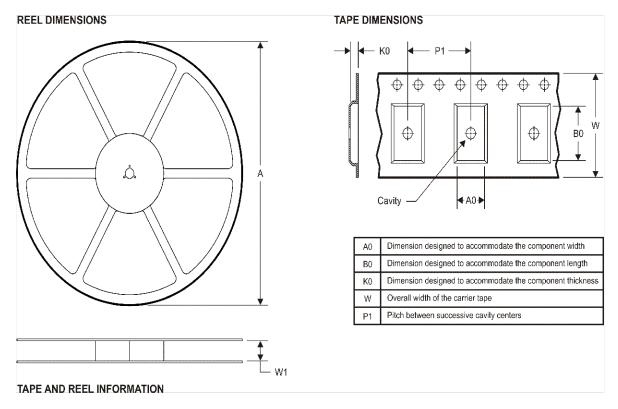
NOTE: Qualified Version Definitions:

- . Catalog TI's standard catalog product
- Military QML certified for Military and Defense Applications

PACKAGE MATERIALS INFORMATION

www.ti.com 17-Aug-2012

TAPE AND REEL INFORMATION

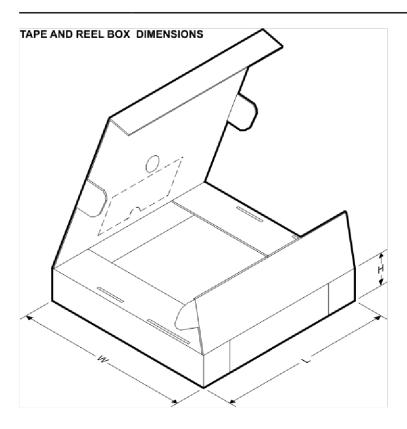


*All dimensions are nominal

Device	Package Type	Package Drawing			Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
					('''''')	** • (******/						
SN74LS107ANSR	so	NS	14	2000	330.0	16.4	8.2	10.5	2.5	12.0	16.0	Q1

PACKAGE MATERIALS INFORMATION

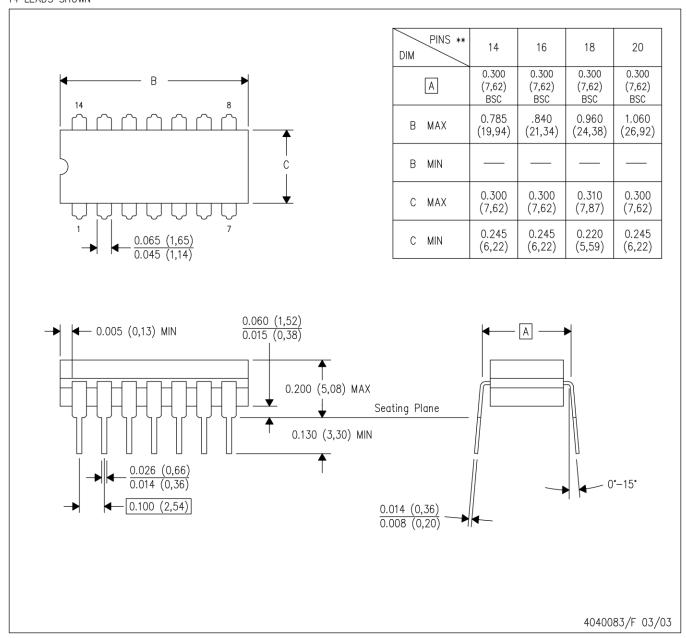
www.ti.com 17-Aug-2012



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74LS107ANSR	SO	NS	14	2000	367.0	367.0	38.0

14 LEADS SHOWN

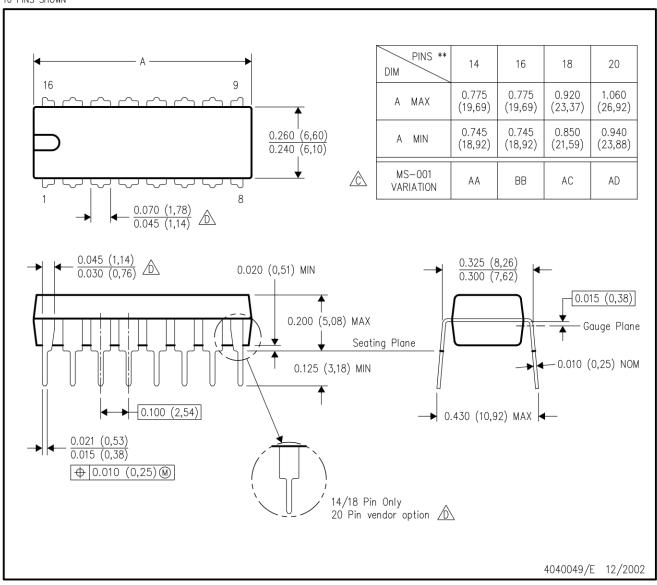


- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package is hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only on press ceramic glass frit seal only.
- E. Falls within MIL STD 1835 GDIP1-T14, GDIP1-T16, GDIP1-T18 and GDIP1-T20.

N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN

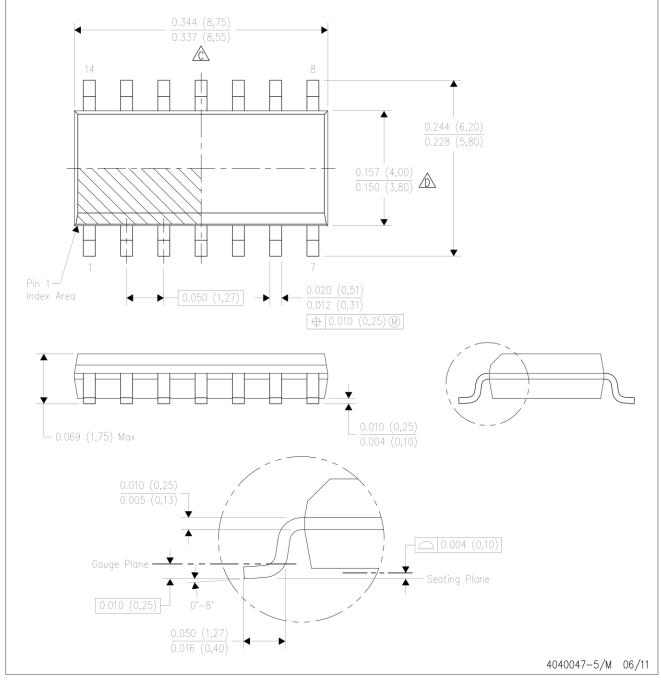


- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
- The 20 pin end lead shoulder width is a vendor option, either half or full width.



D (R-PDSO-G14)

PLASTIC SMALL OUTLINE

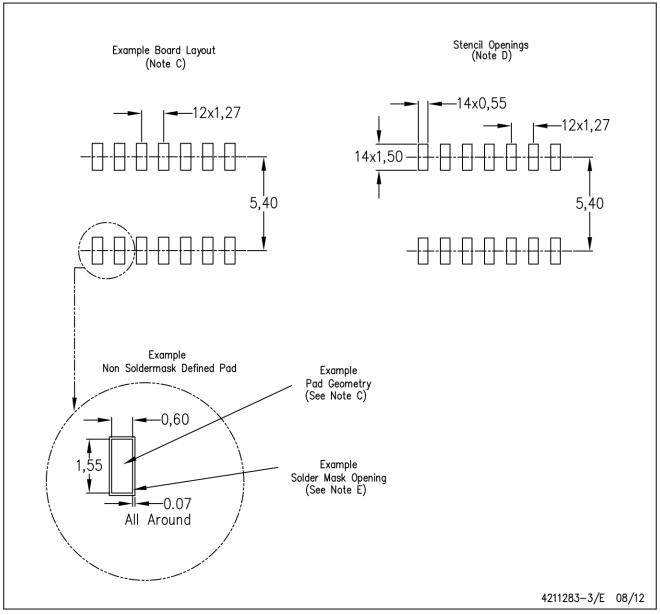


- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0.006 (0,15) each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0.017 (0,43) each side.
- E. Reference JEDEC MS-012 variation AB.



D (R-PDSO-G14)

PLASTIC SMALL OUTLINE



- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Publication IPC-7351 is recommended for alternate designs.
- D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525 for other stencil recommendations.
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.

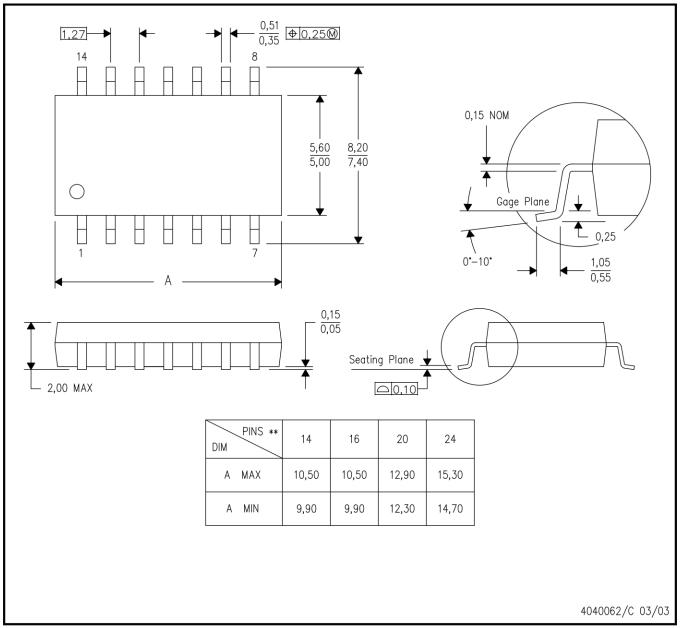


MECHANICAL DATA

NS (R-PDSO-G**)

PLASTIC SMALL-OUTLINE PACKAGE

14-PINS SHOWN



- 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.



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Only those TI components which TI has specifically designated as military grade or "enhanced plastic" are designed and intended for use in military/aerospace applications or environments. Buyer acknowledges and agrees that any military or aerospace use of TI components which have *not* been so designated is solely at the Buyer's risk, and that Buyer is solely responsible for compliance with all legal and regulatory requirements in connection with such use.

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