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

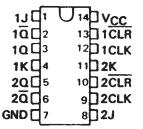
description

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.

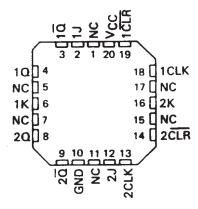
The 'LS107A contain two independent negative-edge-triggered flip-flops. The J and K inputs must be stable prior to the high-to-low clock transition for predictable operation. When the clear is low, it overrides the clock and data inputs forcing the Q output low and the $\overline{\mathbf{Q}}$ output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

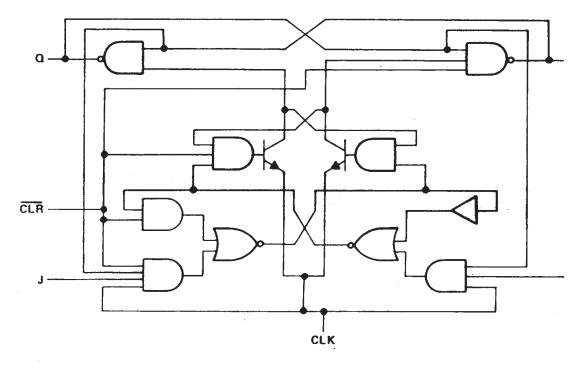
[INPU	OUTPUTS			
CLR	CLK	J	Κ	a	ā
L	×	Х	Х	L	Н
н	ır	L	L	α_0	\bar{a}_0
H	T	Н	L	н	L
Н	. 1	i.	н	L	Н
н	л	Н	н	TOG	GLE

'LS 107A FUNCTION TABLE

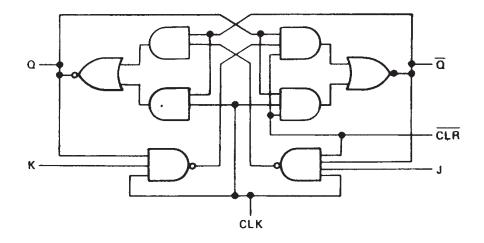
	INPU	OUTPUTS			
CLR	CLK	J	К	α	₫
L	×	Х	Х	L	Н
н	1	L	L	σ_0	\bar{a}_0
н	4	Н	L	н	L
н	1	L	Н	L	Н
н⊦	4	H.	Н	TOG	GLE
н	Н	Х	X	△0	\overline{a}_0



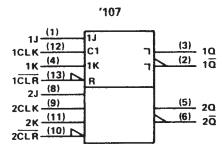
logic diagrams (positive logic)

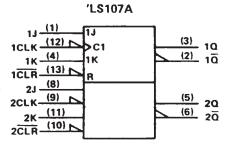


'LS107A



logic symbols†



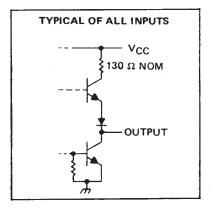


[†]These symbols are in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12. Pin numbers shown are for D, J, and N packages.

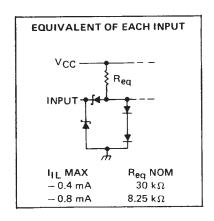
schematic of inputs and outputs

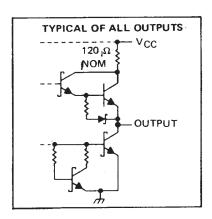
I₁L MAX R_{eq} NOM - 1.6 mA 4 kΩ - 3.2 mA 2 kΩ





'LS107A





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

.,
5.5 V
7 V
- 55°C to 125°C

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



recommended operating conditions

				SN5410)7		SN7410)7	UNIT
			MIN	NOM	MAX	MIN	NOM	MAX	UNIT
Vcc	Supply voltage		4.5	5	5.5	4.75	5	5.25	V
VIH	High-level input voltage		2			2			V
VIL	Low-level input voltage				0.8			8.0	V
ЮН	High-level output current				- 0.4			- 0.4	mA
IOL	Low-level output current				16			16	mA
		CLK high	20			20			
tw	Pulse duration	CLK low	47			47			ns
		CLR low	25			25			
t _{su}	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)

PAG	RAMETER	TEST CONDITIONS†				SN5410	7		SN7410	7	UNIT
100	AMETER		TEST CONDITT	MIN	TYP‡	MAX	MIN	TYP‡	MAX	וואטן	
v_{IK}		V _{CC} = MIN,	I ₁ = - 12 mA				- 1.5			– 1.5	V
V _{OH}		V _{CC} = MIN, I _{OH} = - 0.4 mA	V _{IH} = 2 V,	V _{IL} = 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 _{1L} = 0.8 V,		0.2	0.4		0.2	0.4	٧
t _l		V _{CC} = MAX,	V ₁ = 5.5 V				1			1	mA
1	J or K	\/ - MAY	V ₁ = 2.4 V				40			40	
ΊΗ	All other	V _{CC} = MAX,	V = 2.4 V				80			80	μΑ
1	J or K	V MAY	V =0.4 V				- 1.6			- 1.6	
ILF	All other	V _{CC} = MAX,	V ₁ = 0.4 V				- 3.2			- 3.2	mA
los §		V _{CC} = MAX			- 20		- 57	- 18		- 57	mA
lcc1		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, $V_{CC} = 5 \text{ V}$, $T_A = 25^{\circ}\text{C}$ (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	CLA	Ω	$R_{\perp} = 400 \Omega$, $C_{\perp} = 15 pF$		25	40	ns
^t PLH	CLK	Q or $\overline{\Omega}$			16	25	ns
^t PHL	CLK	d ord			25	40	ns

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	UNII
V _C C	Supply voltage		4.5	5	5.5	4.75	5	5.25	V
ViH	High-level input voltage		2			2			V
VIL	Low-level input voltage			0.7			8.0	V	
10H	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
	Dulan shared an	CLK high	20			20			
tw	Pulse duration	CLR low	25		;	25			ns
	0	data high or low	20			20			
^t su	Setup time before CLK #	CLR inactive	25			25			ns
th	Hold time-data after CLK↓		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)

	0.445750	_	FOT COMPLETO	uct	18	V54LS10)7A	SN	174LS10)7A	UNIT
PA	RAMETER] 	EST CONDITION	V S'	MIN	TYP‡	MAX	MIN	TYP‡	MAX	UNII
VIK		V _{CC} = MIN,	I _I = - 18 mA				- 1.5			– 1.5	V
Vон		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	>
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	
4	CLR	V _{CC} = MAX,	V ₁ = 7 V				0.3			0.3	mA
	CLK						0.4			0.4	
	J or K						20			20	
ЧН	CLR	V _{CC} = MAX,	V1 = 2.7 V				60			60	μΑ
	CLK						80			80	
	J or K		V = 0.4.V				- 0.4			- 0.4	mA
HL	CLR or CLK	V _{CC} = MAX,	V ₁ = 0.4 V				- 0.8			0.8	IIIA
los §		V _{CC} = MAX,	See Note 4		20		- 100	- 20		- 100	mA
Icc (Total)	V _{CC} = MAX,	See Note 2			4	6		4	6	mA

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

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
tPHL	CLR or CLK	Q or Q				15	20	ns

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



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

[§] 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 \overline{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 VO = 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.

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PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan ⁽²⁾	Lead/ Ball Finish	MSL Peak Temp ⁽³⁾	Samples (Requires Login)
JM38510/00203BCA	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	
M38510/00203BCA	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	
M38510/00203BCA	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	
SN54107J	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	
SN54107J	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	
SN74107N	NRND	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	
SN74107N	NRND	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	
SN74107N3	OBSOLETE	PDIP	N	14		TBD	Call TI	Call TI	
SN74107N3	OBSOLETE	PDIP	N	14		TBD	Call TI	Call TI	
SN74107NE4	NRND	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	
SN74107NE4	NRND	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	
SN74LS107AD	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74LS107AD	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74LS107ADE4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74LS107ADE4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74LS107ADG4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74LS107ADG4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74LS107ADR	ACTIVE	SOIC	D	14		TBD	Call TI	Call TI	
SN74LS107ADR	ACTIVE	SOIC	D	14		TBD	Call TI	Call TI	
SN74LS107ADRE4	ACTIVE	SOIC	D	14		TBD	Call TI	Call TI	
SN74LS107ADRE4	ACTIVE	SOIC	D	14		TBD	Call TI	Call TI	
SN74LS107ADRG4	ACTIVE	SOIC	D	14		TBD	Call TI	Call TI	
SN74LS107ADRG4	ACTIVE	SOIC	D	14		TBD	Call TI	Call TI	
SN74LS107AN	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	
SN74LS107AN	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	





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Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan ⁽²⁾	Lead/ Ball Finish	MSL Peak Temp ⁽³⁾	Samples (Requires Login)
SN74LS107AN3	OBSOLETE	PDIP	N	14		TBD	Call TI	Call TI	
SN74LS107AN3	OBSOLETE	PDIP	N	14		TBD	Call TI	Call TI	
SN74LS107ANE4	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	
SN74LS107ANE4	ACTIVE	PDIP	N	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	
SN74LS107ANSR	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74LS107ANSR	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74LS107ANSRE4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74LS107ANSRE4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74LS107ANSRG4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN74LS107ANSRG4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SNJ54107J	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	
SNJ54107J	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	

⁽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.

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)

⁽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.

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





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OTHER QUALIFIED VERSIONS OF SN54107, SN74107:

Military: SN54107

NOTE: Qualified Version Definitions:

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

PACKAGE MATERIALS INFORMATION

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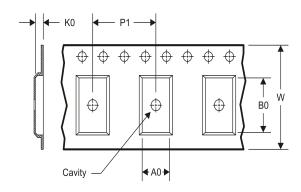
TAPE AND REEL INFORMATION

REEL DIMENSIONS





TAPE DIMENSIONS



A0	Dimension designed to accommodate the component width
В0	Dimension designed to accommodate the component length
K0	Dimension designed to accommodate the component thickness
W	Overall width of the carrier tape
P1	Pitch between successive cavity centers

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

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*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**)

14-PINS SHOWN

PLASTIC SMALL-OUTLINE PACKAGE



- 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.



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