SN54157, SN54LS157, SN54LS158, SN54S157, SN54S158, SN74157, SN74LS157, SN74LS158, SN74S157, SN74S158 QUADRUPLE 2-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS

MARCH 1974 - REVISED MARCH 1988

- Buffered Inputs and Outputs
- Three Speed/Power Ranges Available

	TYPICAL	TYPICAL
****	AVERAGE	
TYPES	PROPAGATION	POWER
	TIME	DISSIPATION
157	9 ns	150 mW
'LS157	9 ns	49 mW
' \$1 5 7	5 ns	250 mW
'LS158	7 ns	24 mW
'S158	4 ns	195 mW

applications

- Expand Any Data Input Point
- Multiplex Dual Data Buses
- Generate Four Functions of Two Variables (One Variable Is Common)
- Source Programmable Counters

description

These monolithic data selectors/multiplexers contain inverters and drivers to supply full on-chip data selection to the four output gates. A separate strobe input is provided. A 4-bit word is selected from one of two sources and is routed to the four outputs. The '157, 'LS157, and 'S157 present true data whereas the 'LS158 and 'S158 present inverted data to minimize propagation delay time.

FUNCTION TABLE

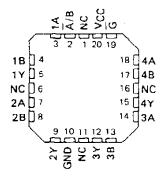
	INPL	_	OUTPUT Y				
STROBE	SELECT A/B	А	ម	'157, 'LS157, 'S157	'L\$158 '\$158		
Н	X	×	X	L	H		
L	L	L	×	L	н		
L	L	н	х	н	L		
L	н	X	L	L	Н		
L	н	×	Н	ј н	Ł		

H = high level, L = low level, X = irrelevant

SN54157, SN54LS157, SN54S157, SN54LS158, SN54S158... J OR Ŵ PACKAGE SN74157... N PACKAGE SN74LS157, SN74S157, SN74LS158. SN74S158... D OR N PACKAGE (TOP VIEW)

Ā/B∐ī	U ₁₆ V _{CC}
1A 🔲 2	15 🔲 G
1 B □3	14 🗌 4A
1Y∐4	13 🗍 4B
2A 🛚 5	12 📙 4Y
2В 🛚 6	11 🗀 3A
2Y [] 7	10 🛚 3B
GND 8	9 🗍 3 Y

\$N54L\$157, \$N54\$157, \$N54L\$158, \$N54\$158...FK PACKAGE (TOP VIEW)



NC - No internal connection

Supply voltage, VCC (See Note 1)		7 V
Input voltage: '157, '\$158	**********************************	5.5 V
'LS157, 'LS158		7 V
Operating free-air temperature range:	SN54'	-55°C to 125°C
	SN74'	0°C to 70°C
Storage temperature range		-65°C to 150°C

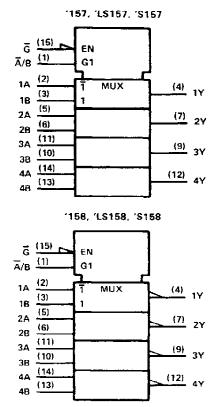
NOTE 1: Voltage values are with respect to network ground terminal.

PRODUCTION DATA documents contain information current as of nublication date. Products conform to specifications our the terms of Team instruments standard waverenty. Production processing does not not usually include testing of all parameters.

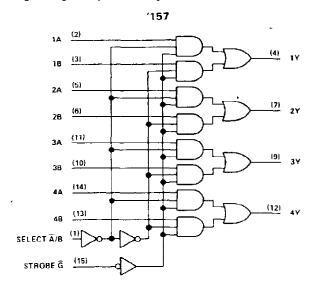


SN54157, SN54LS157, SN54LS158, SN54S157, SN54S158, SN74LS157, SN74LS158, SN74S157, SN74LS158 QUADRUPLE 2-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS

logic symbols†

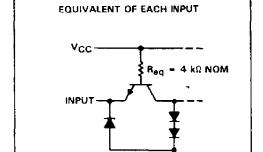


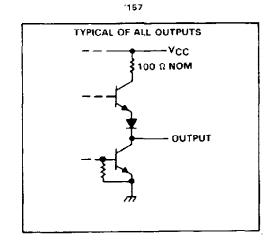
logic diagram (positive logic)



Pin numbers shown are for D, J, N, and W packages.

schematics of inputs and outputs

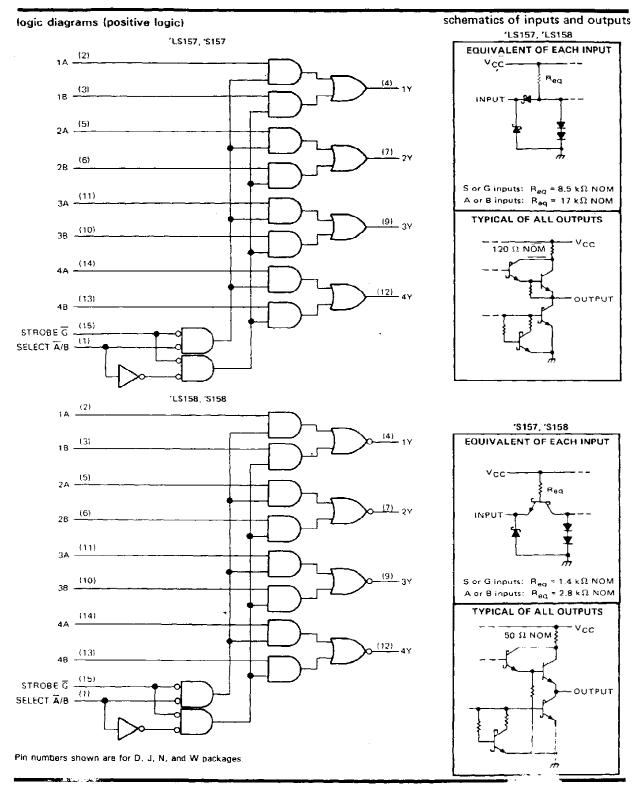




TEYAS Instruments

¹These symbols are in accordance with ANSI/IEEE Std. 91-1984 and IEC Pub lication 617-12.

SN54LS157, SN54LS158, SN54S157, SN54S158, SN74LS157, SN74LS158, SN74S157, SN74S158 QUADRUPLE 2-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS



SN54157, SN74157 QUADRUPLE 2-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS

recommended operating conditions

		SN54157			SN74157		
	MIN	MIN NOM MAX MIN NOM MAX	UNIT				
Supply voltage, V _{CC}	4.5	5	5.5	4.75	5	5.25	v
High-level output current, IOH			-800			-800	μΑ
Low-level output current, IOL			16			16	mA
Operating free-air temperature, TA	-55		125	0		. 70	°c

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

·	DADAMETER	7507.0		1 :	SN5415	7	SN74157			
	PARAMETER	TEST CONDITIONS		MIN	MIN TYP! MAX		MIN TYP#		MAX	UNIT
V_{IH}	High-level input voltage			2			2			V
VIL	Low-level input voltage			1		0.8			0.8	V
VIK	Input clamp voltage	VCC = MIN,	1 ₁ = - 12 mA	1		- 1.5			~ 1.5	٧
v _{он}	High-level output voltage	V _{CC} = MIN, V _{IL} = 0.8 V.	V _{IH} = 2 V, I _{OH} = -800 μA	2.4	3.4		2.4	3.4		V
You	Low-level output voltage	V _{CC} = MIN, V _{IL} = 0.8 V,	V _{IH} = 2 V, 1 _{OL} = 16 mA		0.2	0.4		0.2	0.4	٧
Ιį	Input current at maximum input voltage	VCC = MAX,	V _I = 5.5 V			1			1	mA
ΊΗ	High-level input current	VCC = MAX,	V ₁ = 2.4 V	T .		40			40	μА
ЧL	Low level input current	VCC = MAX,	V _I = 0.4 V ·			-1.6			-1.6	пΑ
los	Short-circuit output current§	V _{CC} = MAX		-20		-55	-18		- 55	mA
ICC	Supply current	VCC = MAX.	See Note 2	 	30	48		30	48	mΑ

¹ For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.

switching characteristics, VCC = 5 V, TA = 25°C

PARAMETER¶	FROM (INPUT)	TEST CONDITIONS	MIN	TYP	MAX	UNIT
tPLH .	Data Strobe G Select Ā/B			9	14	ns
^t PHL		C _L = 15 pF, R _L = 400 st, See Note 3		9	14	
1PLH				13	20	
1PHL				14	21	ns
tPLH		Zee Mote 2		15	23	ns
†PHL			Ī-	18	27] ""5

 $[\]mathbf{1}_{tpLH}$ = propagation delay time, low-to-high-level output

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 duration of short-circuit should not exceed one second.

NOTE 2: ICC is measured with 4.5 V applied to all inputs and all outputs open,

tpHL = propagation delay time, high-to-low-level output

SN54LS157, SN54LS158, SN74LS157, SN74LS158 QUADRUPLE 2-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS

recommended operating conditions

		SN54LS'			SN74LS'			UNIT
		MIN	NOM	MAX	MIN	NOM	MAX	OI411
Vcc	Supply voltage	4.5	5	5.5	4.75	5	5.25	٧
ТОН	High-level output current			-400			-400	μА
IOL	Low-level output current			4			8	mA
TA	Operating free-air temperature	-55		125	0		70	°С

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

	DAG 4445			T			SN54LS	7	SN74LS'			
	PARAME	IEK	I E	T CONDITION	ıs'	MIN	TYP‡	MAX	MIN	TYP‡	MAX	UNIT
ViH	High-level inpu	t voltage				2		-	2			٧
VIL	Low-level input	voltage					-	0.7			0.8	٧
VIK	Input clamp voltage		V _{CC} = M1N, I ₁ = -18 mA				-1.5			~1.5	٧	
νон	<u> </u>		V _{CC} = MIN, V _{IH} = 2 V, V _{IL} = MAX, I _{OH} = -400 μA		2.5	3.4		2.7	3.4		٧	
	Low-level outp		V _{CC} = MIN, V _{IH} = 2 V. I _{OL} = 4 mA V _{IL} = MAX I _{OL} = 8 mA			0.25	0.4		0.25	0.4	>	
VOL	Low-level outp	ut voitage							0.35	0.5	V	
l ₁	Input current at maximum	Ā/B ar G	Vcc = MAX, VI = 7 V					0.2			0.2	mΑ
'1	input voltage	A or B	V _{CC} = MAX,	, mez, v ₁ . / v				0.1			0.1	III.C
1	High-level	Ā/B or \overline{G}	V MAY		•			40			40	цΑ
¹ 1H	input current	A or B	V _{CC} = MAX,	V - 2.7 V				20			20	ДА
1	Low-level	Ā/B or G	V _{CC} = MAX,	V. = 0.4.V				-0.8			-0.8	mΑ
11L	input current	A or B	OCC - MAX,	V - 0.4 V				-0.4			-0.4	
los	Short-circuit or	itput current§	V _{CC} = MAX	·		-20		-100	-20		-100	mΑ
			.,		'LS157	1	9.7	16		9.7	16	
			V _{CC} = MAX,	See Note 2	'L\$158		4.8	8		4.8	8	
Icc	ICC Supply current		V _{CC} = MAX, All A inputs at All other inputs	· ·	'L\$158		6.5	11		6.5	11	mA

 $[\]frac{1}{2}$ For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.

switching characteristics, $V_{CC} = 5 \text{ V}$, $T_A = 25^{\circ} \text{ C}$

PARAMETER¶	FROM	TEST CONDITIONS		'LS157			'LS158		
	(INPUT)	TEST CONDITIONS	MIN	TYP	MAX	MIN	TYP	MAX	UNIT
1PLH	N			9	14		7	12	
1PHL	Data	0 45 5		9	14		10	15	ns
1PLH		C _L = 15 pF,		13	20	Ī	11	17	
tPHL	Strobe G	R _L = 2 kΩ,		14	21	Τ	18	24	ns
tPLH	Select A/B	See Note 3		15	23		13	20	
TPHL	Select A/B	+		18	27		16	24	ns

ItpLH = propagation delay time, low-to-high-level output

 $[\]stackrel{?}{+}$ 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 duration of short-circuit should not exceed one second.

NOTE 2: I_{CC} is measured with 4.5 V applied to all inputs and all outputs open.

tpнt = propagation delay time, high-to-low-level output NOTE 3: Load circuits and voltage diagrams are shown in Section 1.

SN54S157, SN54S158, SN74S157, SN74S158 QUADRUPLE 2-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS

recommended operating conditions

		SN54S157 SN54S158			SN74S157 SN74S158			
	MIN	NOM	MAX	MIN	NOM	NOM MAX		
Supply voltage, V _{CC}	4.5	5	5.5	4.75	5	5.25	٧	
High-level output current, IOH			-1			-1	mA	
Low-level output current, IOL			20			20	mΑ	
Operating free-air temperature, TA	- 55		125	0		70	°C	

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

	PARAMETER		TES	T CONDITIONS	şt	SN54S157 SN74S157			SN54S158 SN74S158			UNIT
			ĺ			MIN	ТҮР‡	MAX	MIN	TYP‡	MAX	
VIH	High-level input voltage					. 2			2			٧
VIL	Low-level input voltage							8.0			0.8	V.
v _{tK}	Input clamp voltage		VCC = MIN,	I _I = -18 mA				-1.2			-1.2	٧
V	High lovel autout valence		VCC = MIN.	V _{1H} = 2 V.	Series 545	2.5	3.4		2.5	3.4		V
YOH	High-level output voltage		VIL = 0.8 V.	I _{OH} = -1 mA	Series 74S	2.7	3.4		2.7	3.4		"
VOL	Low-level output voltage		V _{CC} = MIN, V _{IH} = 2 V, V _{IL} = 0.8 V, I _{OL} = 20 mA					0.5			0.5	\ \
Tį.	Input current at maximum	input voltage	VCC = MAX,	V ₁ = 5.5 V				1	ļ		1	mΑ
ΊΗ	- High-level input current I	/Bor G	VCC = MAX,	V ₁ = 2.7 V				100 50			100 50	μД
HL.	Low-level input current	√8 or G	V _{CC} = MAX,	V ₁ = 0.5 V				_4 _2			4	mA
los	Short-circuit ouput current	\$	V _{CC} = MAX	· · · · · · · · · · · · · · · · · · ·		-40		-100	_40		-100	mA
	Supplied		V _{CC} = MAX, See Note 2	All inputs at 4	5 V,		50	78		39	61	
Icc	Supply current		V _{CC} = MAX, A inputs at 4.5 V, B,G,S, inputs at 0 V, See Note 2								81	mA

^{*} For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.

witching characteristics, V_{CC} = 5 V, T_A = 25°C

PARAMETER !	FROM	TEST CONDITIONS	SN54S157 SN74S157			SN54S158 SN74S158			UNIT
	(INPUT)		MIN	TYP	MAX	MIN	TYP	MAX] !
^t PLH				5	7.5		4	6	ns
tPHL .	Data	C _L - 15 pF, R _L = 280 Ω,		4.5	6.5		4	6	1115
^t PLH	Strobe G			8.5	12.5		6.5	11.5	ns
tPHL	Strone G	NL = 280 14, See Note 3		7.5	12		7	12	113
tPLH .	C-l A/D	266 14016 2		9.5	15		8	12	ns
tPHL .	Select A/B			9.5	15		8	12	1113

 $[\]P_{tpLH} = propagation delay time, low-to-high-level output$



 $[\]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, and duration of the short-circuit should not exceed one second.

Note 2: ICC is measured with all outputs open.

tpHL = propagation delay time, high-to-low-level output

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

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PACKAGING INFORMATION

Orderable part number	Status (1)	Material type	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material	MSL rating/ Peak reflow	Op temp (°C)	Part marking (6)
76002012A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	76002012A SNJ54LS 157FK
7600201EA	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7600201EA SNJ54LS157J
7600201FA	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7600201FA SNJ54LS157W
76033012A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	76033012A SNJ54LS 158FK
7603301EA	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7603301EA SNJ54LS158J
JM38510/07903BEA	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 07903BEA
JM38510/07903BEA.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 07903BEA
JM38510/07903BFA	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 07903BFA
JM38510/07903BFA.A	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 07903BFA
JM38510/30903B2A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30903B2A
JM38510/30903B2A.A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30903B2A
JM38510/30903BEA	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30903BEA
JM38510/30903BEA.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30903BEA
JM38510/30903BFA	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30903BFA
JM38510/30903BFA.A	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30903BFA
M38510/07903BEA	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 07903BEA





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Orderable part number	Status (1)	Material type	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material	MSL rating/ Peak reflow	Op temp (°C)	Part marking (6)
M38510/07903BFA	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 07903BFA
M38510/30903B2A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30903B2A
M38510/30903BEA	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30903BEA
M38510/30903BFA	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 30903BFA
SN54157J	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54157J
SN54157J.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54157J
SN54LS157J	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54LS157J
SN54LS157J.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54LS157J
SN54LS158J	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54LS158J
SN54LS158J.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54LS158J
SN54S157J	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54S157J
SN54S157J.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54S157J
SN74LS157D	Obsolete	Production	SOIC (D) 16	-	-	Call TI	Call TI	0 to 70	LS157
SN74LS157DR	Active	Production	SOIC (D) 16	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	LS157
SN74LS157DR.A	Active	Production	SOIC (D) 16	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	LS157
SN74LS157DRE4	Active	Production	SOIC (D) 16	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	LS157
SN74LS157N	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74LS157N
SN74LS157N.A	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74LS157N
SN74LS157NE4	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74LS157N
SN74LS157NSR	Active	Production	SOP (NS) 16	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	74LS157
SN74LS157NSR.A	Active	Production	SOP (NS) 16	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	74LS157
SN74LS158D	Obsolete	Production	SOIC (D) 16	-	-	Call TI	Call TI	0 to 70	LS158
SN74LS158DR	Active	Production	SOIC (D) 16	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	LS158
SN74LS158DR.A	Active	Production	SOIC (D) 16	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	LS158
SN74LS158N	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74LS158N
SN74LS158N.A	Active	Production	PDIP (N) 16	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74LS158N
SN74LS158NSR	Active	Production	SOP (NS) 16	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	74LS158
SN74LS158NSR.A	Active	Production	SOP (NS) 16	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	74LS158





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Orderable part number	Status (1)	Material type	Package Pins	Package qty Carrier	(3)	Lead finish/ Ball material	MSL rating/ Peak reflow	Op temp (°C)	Part marking (6)
SNJ54157J	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ54157J
SNJ54157J.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ54157J
SNJ54157W	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ54157W
SNJ54157W.A	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ54157W
SNJ54LS157FK	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	76002012A SNJ54LS 157FK
SNJ54LS157FK.A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	76002012A SNJ54LS 157FK
SNJ54LS157J	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7600201EA SNJ54LS157J
SNJ54LS157J.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7600201EA SNJ54LS157J
SNJ54LS157W	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7600201FA SNJ54LS157W
SNJ54LS157W.A	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7600201FA SNJ54LS157W
SNJ54LS158FK	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	76033012A SNJ54LS 158FK
SNJ54LS158FK.A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	76033012A SNJ54LS 158FK
SNJ54LS158J	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7603301EA SNJ54LS158J
SNJ54LS158J.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	7603301EA SNJ54LS158J
SNJ54S157FK	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ54S 157FK
SNJ54S157FK.A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ54S 157FK
SNJ54S157J	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ54S157J
SNJ54S157J.A	Active	Production	CDIP (J) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ54S157J
SNJ54S157W	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ54S157W

PACKAGE OPTION ADDENDUM

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Orderable part number	Status	Material type	Package Pins	Package qty Carrier	RoHS	Lead finish/ Ball material	MSL rating/ Peak reflow	Op temp (°C)	Part marking (6)
						(4)	(5)		
SNJ54S157W.A	Active	Production	CFP (W) 16	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ54S157W

⁽¹⁾ Status: For more details on status, see our product life cycle.

- (3) RoHS values: Yes, No, RoHS Exempt. See the TI RoHS Statement for additional information and value definition.
- (4) 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.
- (5) 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.
- (6) 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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OTHER QUALIFIED VERSIONS OF SN54LS157, SN54LS158, SN74LS157, SN74LS158:

Catalog: SN74LS157, SN74LS158

Military: SN54LS157, SN54LS158

NOTE: Qualified Version Definitions:

⁽²⁾ 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.



PACKAGE OPTION ADDENDUM

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

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TAPE AND REEL INFORMATION

REEL DIMENSIONS Reel Diameter Reel Width (W1)



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

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
SN74LS157DR	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
SN74LS157NSR	SOP	NS	16	2000	330.0	16.4	8.45	10.55	2.5	12.0	16.2	Q1
SN74LS157NSR	SOP	NS	16	2000	330.0	16.4	8.1	10.4	2.5	12.0	16.0	Q1
SN74LS158DR	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
SN74LS158NSR	SOP	NS	16	2000	330.0	16.4	8.1	10.4	2.5	12.0	16.0	Q1



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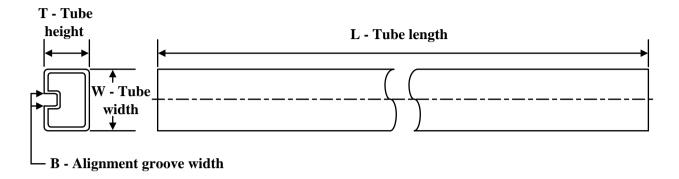
*All dimensions are nominal

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Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74LS157DR	SOIC	D	16	2500	340.5	336.1	32.0
SN74LS157NSR	SOP	NS	16	2000	353.0	353.0	32.0
SN74LS157NSR	SOP	NS	16	2000	353.0	353.0	32.0
SN74LS158DR	SOIC	D	16	2500	353.0	353.0	32.0
SN74LS158NSR	SOP	NS	16	2000	353.0	353.0	32.0



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TUBE



*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (µm)	B (mm)
76002012A	FK	LCCC	20	55	506.98	12.06	2030	NA
7600201FA	W	CFP	16	25	506.98	26.16	6220	NA
76033012A	FK	LCCC	20	55	506.98	12.06	2030	NA
JM38510/07903BFA	W	CFP	16	25	506.98	26.16	6220	NA
JM38510/07903BFA.A	W	CFP	16	25	506.98	26.16	6220	NA
JM38510/30903B2A	FK	LCCC	20	55	506.98	12.06	2030	NA
JM38510/30903B2A.A	FK	LCCC	20	55	506.98	12.06	2030	NA
JM38510/30903BFA	W	CFP	16	25	506.98	26.16	6220	NA
JM38510/30903BFA.A	W	CFP	16	25	506.98	26.16	6220	NA
M38510/07903BFA	W	CFP	16	25	506.98	26.16	6220	NA
M38510/30903B2A	FK	LCCC	20	55	506.98	12.06	2030	NA
M38510/30903BFA	W	CFP	16	25	506.98	26.16	6220	NA
SN74LS157N	N	PDIP	16	25	506	13.97	11230	4.32
SN74LS157N	N	PDIP	16	25	506	13.97	11230	4.32
SN74LS157N.A	N	PDIP	16	25	506	13.97	11230	4.32
SN74LS157N.A	N	PDIP	16	25	506	13.97	11230	4.32
SN74LS157NE4	N	PDIP	16	25	506	13.97	11230	4.32
SN74LS157NE4	N	PDIP	16	25	506	13.97	11230	4.32
SN74LS158N	N	PDIP	16	25	506	13.97	11230	4.32
SN74LS158N	N	PDIP	16	25	506	13.97	11230	4.32
SN74LS158N.A	N	PDIP	16	25	506	13.97	11230	4.32
SN74LS158N.A	N	PDIP	16	25	506	13.97	11230	4.32
SNJ54157W	W	CFP	16	25	506.98	26.16	6220	NA
SNJ54157W.A	W	CFP	16	25	506.98	26.16	6220	NA
SNJ54LS157FK	FK	LCCC	20	55	506.98	12.06	2030	NA
SNJ54LS157FK.A	FK	LCCC	20	55	506.98	12.06	2030	NA
SNJ54LS157W	W	CFP	16	25	506.98	26.16	6220	NA
SNJ54LS157W.A	W	CFP	16	25	506.98	26.16	6220	NA
SNJ54LS158FK	FK	LCCC	20	55	506.98	12.06	2030	NA



PACKAGE MATERIALS INFORMATION

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Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (µm)	B (mm)
SNJ54LS158FK.A	FK	LCCC	20	55	506.98	12.06	2030	NA
SNJ54S157FK	FK	LCCC	20	55	506.98	12.06	2030	NA
SNJ54S157FK.A	FK	LCCC	20	55	506.98	12.06	2030	NA

W (R-GDFP-F16)

CERAMIC DUAL FLATPACK



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only.
- E. Falls within MIL STD 1835 GDFP2-F16



8.89 x 8.89, 1.27 mm pitch

LEADLESS CERAMIC CHIP CARRIER

This image is a representation of the package family, actual package may vary. Refer to the product data sheet for package details.



INSTRUMENTS www.ti.com

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.





SOP



- 1. All linear dimensions are in millimeters. Dimensions in parenthesis are for reference only. Dimensioning and tolerancing
- per ASME Y14.5M.

 2. This drawing is subject to change without notice.

 3. 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. This dimension does not include interlead flash. Interlead flash shall not exceed 0.25 mm, per side.



SOF



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.



SOF



NOTES: (continued)

- 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.



D (R-PDS0-G16)

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 AC.



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