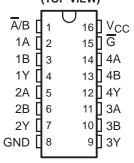
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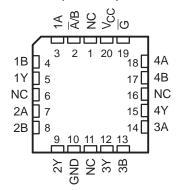
- Wide Operating Voltage Range of 2 V to 6 V
- **High-Current Inverting Outputs Drive Up To** 15 LSTTL Loads
- Low Power Consumption, 80-µA Max I_{CC}
- 'HC257 . . . Typical $t_{pd} = 9 \text{ ns}$

SN54HC257, SN54HC258...J PACKAGE SN74HC257, SN74HC258 . . . D, N, NS, OR PW PACKAGE (TOP VIEW)



- 'HC258 . . . Typical t_{pd} = 12 ns
- ±6-mA Output Drive at 5 V
- Low Input Current of 1 µA Max
- **Provides Bus Interface from Multiple** Sources in High-Performance Systems

SN54HC257, SN54HC258...FK PACKAGE (TOP VIEW)



NC - No internal connection

description/ordering information

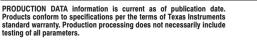
ORDERING INFORMATION

TA	PACK	AGE [†]	ORDERABLE PART NUMBER	TOP-SIDE MARKING
	DDID N	Tub (05	SN74HC257N	SN74HC257N
	PDIP – N	Tube of 25	SN74HC258N	SN74HC258N
		Tube of 40	SN74HC258N SN74HC257D SN74HC257DR SN74HC257DT SN74HC257DT SN74HC258D	
		Reel of 2500	SN74HC257DR	HC257
	SOIC - D	Reel of 250	SN74HC257DT	
		Tube of 40	SN74HC258D	110050
		Reel of 2500	SN74HC258DR	HC258
-40°C to 85°C	00D NO	D1 - (0000	SN74HC257NSR	HC257
	SOP - NS	P – NS Reel of 2000	SN74HC258NSR	HC258
		Tube of 90	SN74HC257PW	
		Reel of 2000	SN74HC257PWR	HC257
	T0000 514/	Reel of 250	SN74HC257PWT	
	TSSOP – PW	Tube of 90	SN74HC258PW	
		Reel of 2000	SN74HC258PWR	HC258
		Reel of 250	SN74HC258PWT	
	CDID I	Tube of OF	SNJ54HC257J	SNJ54HC257J
5500 to 40500	CDIP – J	Tube of 25	SNJ54HC258J	SNJ54HC258J
-55°C to 125°C	LCCC – FK	Tubo of FF	SNJ54HC257FK	SNJ54HC257FK
	LCCC - FK	Tube of 55	SNJ54HC258FK	SNJ54HC258FK

[†] 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 Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.



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description/ordering information (continued)

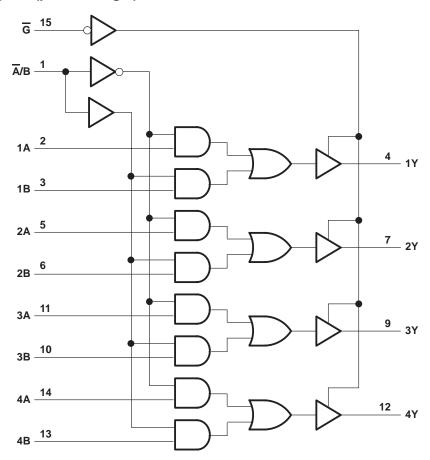
These devices are designed to multiplex signals from 4-bit data sources to 4-output data lines in bus-organized systems. The 3-state outputs do not load the data lines when the output-enable (\overline{G}) input is at a high logic level.

To ensure the high-impedance state during power up or power down, \overline{G} 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.

FUNCTION TABLE

	INPL	JTS		OUTF	Y TU
G	A/B	Α	В	'HC257	'HC258
Н	Χ	Χ	Χ	Z	Z
L	L	L	X	L	Н
L	L	Н	X	Н	L
L	Н	Χ	L	L	Н
L	Н	Χ	Н	Н	L

'HC257 logic diagram (positive logic)

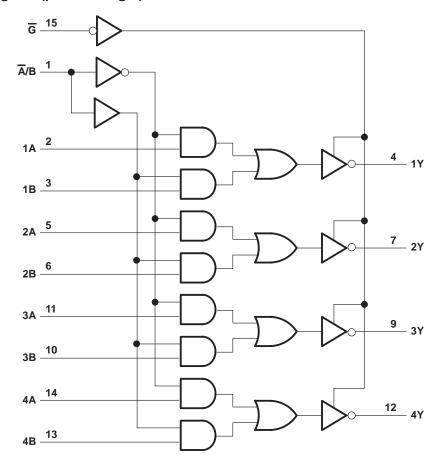


Pin numbers shown are for the D, J, N, NS, and PW packages.



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'HC258 logic diagram (positive logic)



Pin numbers shown are for the D, J, N, NS, and PW 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 clamp current, I_{IK} ($V_I < 0$ or $V_I > V_{CC}$).		±20 mA
Output clamp current, I _{OK} (V _O < 0 or V _O > V _{CO}	c)	±20 mA
Continuous output current, I_O ($V_O = 0$ to V_{CC})	- 	±35 mA
Continuous current through V _{CC} or GND		±70 mA
Package thermal impedance, θ _{JA} (see Note 1):	: D package	73°C/W
	N package	67°C/W
	NS package	64°C/W
	PW package	108°C/W
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.

NOTE 1: The package thermal impedance is calculated in accordance with JESD 51-7.



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recommended operating conditions (see Note 2)

				154HC25 N54HC25			74HC25 174HC25	•	UNIT
			MIN	NOM	MAX	MIN	NOM	MAX	
VCC	Supply voltage		2	5	6	2	5	6	V
		V _{CC} = 2 V	1.5			1.5			
\vee_{IH}	High-level input voltage	V _{CC} = 4.5 V	3.15			3.15			V
		VCC = 6 V	4.2			4.2			
		V _{CC} = 2 V			0.3			0.5	
٧ _{IL}	Low-level input voltage	$V_{CC} = 4.5 \text{ V}$			0.9			1.35	V
		VCC = 6 V			1.2			1.8	
٧ _I	Input voltage		0		VCC	0		VCC	V
٧o	Output voltage		0		VCC	0		VCC	V
		V _{CC} = 2 V			1000			1000	
Δt/Δν	Input transition rise/fall time	$V_{CC} = 4.5 \text{ V}$			500			500	ns
		VCC = 6 V			400			400	
TA	Operating free-air temperature		-55		125	-40		85	°C

NOTE 2: 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)

PARAMETER	TEST CO	ONDITIONS	VCC	Т	A = 25°C	;	SN54H SN54H		SN74H SN74H		V V
				MIN	TYP	MAX	MIN	MAX	MIN	MAX	
			2 V	1.9	1.998		1.9		1.9		
		$I_{OH} = -20 \mu A$	4.5 V	4.4	4.499		4.4		4.4		
Vон	$V_I = V_{IH}$ or V_{IL}		6 V	5.9	5.999		5.9		5.9		V
		$I_{OH} = -6 \text{ mA}$	4.5 V	3.98	4.3		3.7		3.84		
		$I_{OH} = -7.8 \text{ mA}$	6 V	5.48	5.8		5.2		5.34		
			2 V		0.002	0.1		0.1		0.1	
		$I_{OL} = 20 \mu A$	4.5 V		0.001	0.1		0.1		0.1	
VOL	VI = VIH or VIL		6 V		0.001	0.1		0.1		0.1	V
		I _{OL} = 6 mA	4.5 V		0.17	0.26		0.4		0.33	
		I _{OL} = 7.8 mA	6 V		0.15	0.26		0.4		0.33	
ΙĮ	$V_I = V_{CC}$ or 0	•	6 V		±0.1	±100		±1000		±1000	nA
loz	$V_O = V_{CC}$ or 0	•	6 V		±0.01	±0.5		±10		±5	μΑ
Icc	$V_I = V_{CC}$ or 0,	I _O = 0	6 V			8		160		80	μΑ
C _i			2 V to 6 V		3	10		10		10	pF

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switching characteristics over recommended operating free-air temperature range, $C_L = 50$ pF (unless otherwise noted) (see Figure 1)

	FROM	то	.,	T,	ղ = 25°C	;	SN54H	C257	SN74H	C257	
PARAMETER	(INPUT)	(OUTPUT)	vcc	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
			2 V		50	100		150		125	
	A or B	Any Y	4.5 V		10	20		30		25	
			6 V		9	17		25		21	
^t pd			2 V		50	100		150		125	ns
	Ā/B	Any Y	4.5 V		10	20		30		25	
			6 V		9	17		25		21	
			2 V		75	150		225		190	
^t en	G	Any Y	4.5 V		15	30		45		38	ns
			6 V		13	26		38		32	
			2 V		75	150		225		190	
^t dis	G	Any Y	4.5 V		15	30		45		38	ns
			6 V		13	26		38		32	
			2 V		28	60		90		75	
t _t		Any Y	4.5 V		8	12		18		15	ns
			6 V		6	10		15		13	

switching characteristics over recommended operating free-air temperature range, C_L = 150 pF (unless otherwise noted) (see Figure 1)

	FROM	то		T,	Δ = 25°C	;	SN54H	C257	SN74H	C257	
PARAMETER	(INPUT)	(OUTPUT)	vcc	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
			2 V		75	150		245		190	
	A or B	Any Y	4.5 V		15	30		45		38	
			6 V		13	26		38		32	
^t pd			2 V		75	150		245		190	ns
	Ā/B	Any Y	4.5 V		15	30		45		38	
			6 V		13	26		38		32	
			2 V		100	200		300		250	
t _{en}	G	Any Y	4.5 V		24	40		60		50	ns
			6 V		18	34		51		43	
			2 V		45	210		315		265	
t _t		Any Y	4.5 V		17	42		63		53	ns
			6 V		13	36		53		45	

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switching characteristics over recommended operating free-air temperature range, $C_L = 50 \text{ pF}$ (unless otherwise noted) (see Figure 1)

242445	FROM	то	.,	T	λ = 25°C	;	SN54H	C258	SN74H	C258	
PARAMETER	(INPUT)	(OUTPUT)	vcc	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
			2 V		60	100		150		125	
	A or B	Any Y	4.5 V		13	20		30		25	
			6 V		12	17		25		21	
^t pd			2 V		60	115		175		145	ns
	Ā/B	Any Y	4.5 V		13	23		35		29	
			6 V		12	20		30		25	
			2 V		70	150		225		190	
^t en	G	Any Y	4.5 V		15	30		45		38	ns
			6 V		13	26		38		32	
			2 V		75	150		225		190	
^t dis	G	Any Y	4.5 V		15	30		45		38	ns
			6 V		13	26		38		32	
			2 V		28	60		90		75	
t _t		Any Y	4.5 V		8	12		18		15	ns
			6 V	_	6	10	_	15		13	

switching characteristics over recommended operating free-air temperature range, C_L = 150 pF (unless otherwise noted) (see Figure 1)

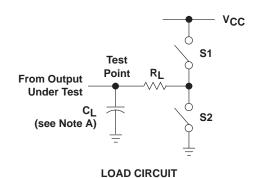
242445	FROM	то	l .,	T,	\ = 25°C	;	SN54H	IC258	SN74H	C258	
PARAMETER	(INPUT)	(OUTPUT)	vcc	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
			2 V		95	150		245		190	
	A or B	Any Y	4.5 V		23	30		45		38	
,			6 V		21	26		38		32	
^t pd			2 V		95	165		240		210	ns
	Ā/B	Any Y	4.5 V		23	33		48		42	
			6 V		21	28		41		36	
			2 V		100	200		300		250	
t _{en}	G	Any Y	4.5 V		24	40		60		50	ns
			6 V		18	34		51		43	
			2 V		45	210		315		265	
tt		Any Y	4.5 V		17	42		63		53	ns
			6 V		13	36	_	53		45	

operating characteristics, T_A = 25°C

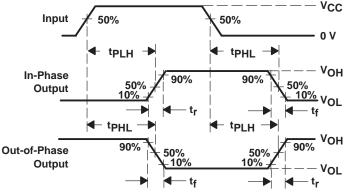
	PARAMETER	TEST CONDITIONS	TYP	UNIT
C _{pd}	Power dissipation capacitance per multiplexer	No load	40	pF

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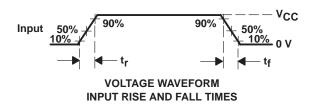
PARAMETER MEASUREMENT INFORMATION

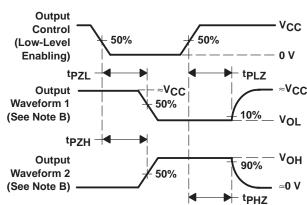


PARAI	METER	RL	CL	S1	S2
	tPZH	1 kO	50 pF 1 kΩ or		Closed
^t en	tPZL	1 K22	150 pF	Closed	Open
4	tPHZ	1 k Ω	50 pF	Open	Closed
^t dis	tPLZ	1 K22	30 pr	Closed	Open
t _{pd} or	t _t		50 pF or 150 pF	Open	Open



VOLTAGE WAVEFORMS
PROPAGATION DELAY AND OUTPUT TRANSITION TIMES





VOLTAGE WAVEFORMS
ENABLE AND DISABLE TIMES FOR 3-STATE OUTPUTS

- NOTES: A. C_L includes probe and test-fixture 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. Phase relationships between waveforms were chosen arbitrarily. All input pulses are supplied by generators having the following characteristics: PRR \leq 1 MHz, Z_O = 50 Ω , t_f = 6 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. tpLH and tpHL are the same as tpd.

Figure 1. Load Circuit and Voltage Waveforms





PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	e Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
85124012A	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type
8512401EA	ACTIVE	CDIP	J	16	1	TBD	A42 SNPB	N / A for Pkg Type
SN54HC257J	ACTIVE	CDIP	J	16	1	TBD	A42 SNPB	N / A for Pkg Type
SN74HC257D	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC257DE4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC257DG4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC257DR	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC257DRE4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC257DRG4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC257DT	ACTIVE	SOIC	D	16	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC257DTE4	ACTIVE	SOIC	D	16	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC257DTG4	ACTIVE	SOIC	D	16	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC257N	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN74HC257NE4	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN74HC257NSR	ACTIVE	so	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC257NSRE4	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC257NSRG4	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC257PW	ACTIVE	TSSOP	PW	16	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC257PWE4	ACTIVE	TSSOP	PW	16	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC257PWG4	ACTIVE	TSSOP	PW	16	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC257PWLE	OBSOLETE	TSSOP	PW	16		TBD	Call TI	Call TI
SN74HC257PWR	ACTIVE	TSSOP	PW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC257PWRE4	ACTIVE	TSSOP	PW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC257PWRG4	ACTIVE	TSSOP	PW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC257PWT	ACTIVE	TSSOP	PW	16	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC257PWTE4	ACTIVE	TSSOP	PW	16	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC257PWTG4	ACTIVE	TSSOP	PW	16	250	Green (RoHS &	CU NIPDAU	Level-1-260C-UNLIM





9-Oct-2007

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	e Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
						no Sb/Br)		
SN74HC258D	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC258DE4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC258DG4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC258DR	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC258DRE4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC258DRG4	ACTIVE	SOIC	D	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC258DT	ACTIVE	SOIC	D	16	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC258DTE4	ACTIVE	SOIC	D	16	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC258DTG4	ACTIVE	SOIC	D	16	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC258N	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN74HC258NE4	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type
SN74HC258NSR	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC258NSRE4	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC258NSRG4	ACTIVE	SO	NS	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC258PW	ACTIVE	TSSOP	PW	16	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC258PWE4	ACTIVE	TSSOP	PW	16	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC258PWG4	ACTIVE	TSSOP	PW	16	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC258PWR	ACTIVE	TSSOP	PW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC258PWRE4	ACTIVE	TSSOP	PW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC258PWRG4	ACTIVE	TSSOP	PW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC258PWT	ACTIVE	TSSOP	PW	16	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC258PWTE4	ACTIVE	TSSOP	PW	16	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74HC258PWTG4	ACTIVE	TSSOP	PW	16	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIN
SNJ54HC257FK	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type
SNJ54HC257J	ACTIVE	CDIP	J	16	1	TBD	A42 SNPB	N / A for Pkg Type

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



PACKAGE OPTION ADDENDUM

9-Oct-2007

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.

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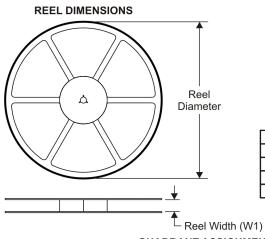
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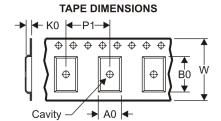




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TAPE AND REEL INFORMATION





	Dimension designed to accommodate the component width
B0	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

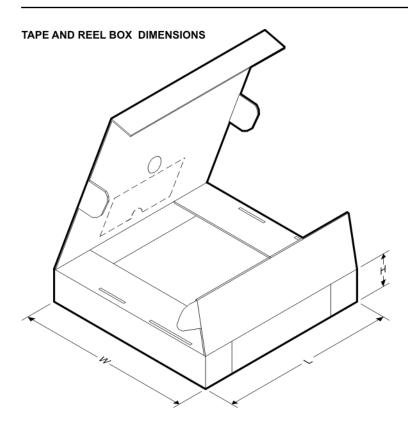
Sprocket Holes Q1 | Q2 | Q1 | Q2 | Q3 | Q4 | User Direction of Feed

Pocket Quadrants

*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
SN74HC257DR	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
SN74HC257NSR	SO	NS	16	2000	330.0	16.4	8.2	10.5	2.5	12.0	16.0	Q1
SN74HC257PWR	TSSOP	PW	16	2000	330.0	12.4	7.0	5.6	1.6	8.0	12.0	Q1
SN74HC258DR	SOIC	D	16	2500	330.0	16.4	6.5	10.3	2.1	8.0	16.0	Q1
SN74HC258NSR	SO	NS	16	2000	330.0	16.4	8.2	10.5	2.5	12.0	16.0	Q1
SN74HC258PWR	TSSOP	PW	16	2000	330.0	12.4	7.0	5.6	1.6	8.0	12.0	Q1





*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74HC257DR	SOIC	D	16	2500	333.2	345.9	28.6
SN74HC257NSR	SO	NS	16	2000	346.0	346.0	33.0
SN74HC257PWR	TSSOP	PW	16	2000	346.0	346.0	29.0
SN74HC258DR	SOIC	D	16	2500	333.2	345.9	28.6
SN74HC258NSR	SO	NS	16	2000	346.0	346.0	33.0
SN74HC258PWR	TSSOP	PW	16	2000	346.0	346.0	29.0

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

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.

FK (S-CQCC-N**)

28 TERMINAL SHOWN

LEADLESS CERAMIC CHIP CARRIER



NOTES: 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 metal lid.
- D. The terminals are gold plated.
- E. Falls within JEDEC MS-004



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.



D (R-PDSO-G16)

PLASTIC SMALL-OUTLINE PACKAGE



- 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 .006 (0,15) per end.
- Body width does not include interlead flash. Interlead flash shall not exceed .017 (0,43) per side.
- E. Reference JEDEC MS-012 variation AC.



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.



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