

Single 3-Input Positive-NOR Gate

Check for Samples: SN74LVC1G27

FEATURES

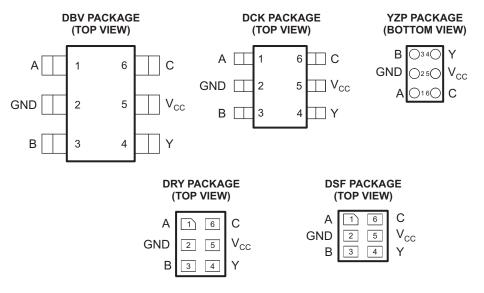
- Available in the Texas Instruments NanoFree™ **Package**
- Supports 5-V V_{CC} Operation
- Inputs Accept Voltages to 5.5 V
- Supports Down Translation to V_{CC}
- Max t_{pd} of 4.5 ns at 3.3 V
- Low Power Consumption, 10-µA Max I_{CC}
- ±24-mA Output Drive at 3.3 V
- I_{off} Supports Live Insertion, Partial-Power-Down Mode, and Back-Drive Protection
- Latch-Up Performance Exceeds 100 mA Per JESD 78, Class II
- **ESD Protection Exceeds JESD 22**
 - 2000-V Human-Body Model (A114-A)
 - 200-V Machine Model (A115-A)
 - 1000-V Charged-Device Model (C101)

DESCRIPTION

The SN74LVC1G27 device performs the Boolean function $Y = \overline{A + B + C}$ or $Y = \overline{A} \cdot \overline{B} \cdot \overline{C}$ in positive logic.

NanoFree™ package technology is a major breakthrough in IC packaging concepts, using the die as the package.

This device is fully specified for partial-power-down applications using Ioff. The Ioff circuitry disables the outputs, preventing damaging current backflow through the device when it is powered down.



See mechanical drawings for dimensions.

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. NanoFree is a trademark of Texas Instruments.





This integrated circuit can be damaged by ESD. Texas Instruments recommends that all integrated circuits be handled with appropriate precautions. Failure to observe proper handling and installation procedures can cause damage.

ESD damage can range from subtle performance degradation to complete device failure. Precision integrated circuits may be more susceptible to damage because very small parametric changes could cause the device not to meet its published specifications.

Function Table

	INPUTS	PUTS OU				
Α	В	С	Y			
Н	Х	Х	L			
X	Н	X	L			
X	X	Н	L			
L	L	L	Н			

Logic Diagram (Positive Logic)



Absolute Maximum Ratings(1)

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

			MIN	MAX	UNIT
V _{CC}	Supply voltage range		-0.5	6.5	V
VI	Input voltage range ⁽²⁾		-0.5	6.5	V
Vo	Voltage range applied to any output in the h	Voltage range applied to any output in the high-impedance or power-off state (2)			
Vo	Voltage range applied to any output in the h	igh or low state (2)(3)	-0.5	V _{CC} + 0.5	V
I _{IK}	Input clamp current	V _I < 0		-50	mA
I _{OK}	Output clamp current	V _O < 0		-50	mA
lo	Continuous output current			±50	mA
	Continuous current through V _{CC} or GND			±100	mA
		DBV package		165	
θ_{JA}	Package thermal impedance (4)	DCK package		259	°C/W
		YZP package		123	
T _{stg}	Storage temperature range		-65	150	°C

⁽¹⁾ 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.

Product Folder Links: SN74LVC1G27

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⁽²⁾ The input negative-voltage and output voltage ratings may be exceeded if the input and output current ratings are observed.

⁽³⁾ The value of V_{CC} is provided in the recommended operating conditions table.

⁽⁴⁾ The package thermal impedance is calculated in accordance with JESD 51-7.



Recommended Operating Conditions⁽¹⁾

			MIN	MAX	UNIT			
.,	Cumplications	Operating	1.65	5.5	V			
V_{CC}	Supply voltage	Data retention only	1.5		V			
		V _{CC} = 1.65 V to 1.95 V	0.65 × V _{CC}					
.,	LPak Israel Sanut saltana	V _{CC} = 2.3 V to 2.7 V	1.7		V			
V_{IH}	High-level input voltage	V _{CC} = 3 V to 3.6 V	2		V			
		V _{CC} = 4.5 V to 5.5 V	0.7 × V _{CC}					
		V _{CC} = 1.65 V to 1.95 V		0.35 × V _{CC}				
.,	Lavy lavyal import orality ma	V _{CC} = 2.3 V to 2.7 V		0.7				
V_{IL}	Low-level input voltage	V _{CC} = 3 V to 3.6 V		0.8	V			
		V _{CC} = 4.5 V to 5.5 V		0.3 × V _{CC}				
VI	Input voltage		0	5.5	V			
Vo	Output voltage		0	V _{CC}	V			
		V _{CC} = 1.65 V		-4				
		V _{CC} = 2.3 V		-8				
I_{OH}	High-level output current	V 2.V		-16	mA			
		V _{CC} = 3 V		-24				
		V _{CC} = 4.5 V						
		V _{CC} = 1.65 V		4				
		V _{CC} = 2.3 V		8				
I_{OL}	Low-level output current	V 0.V		16	mA			
		V _{CC} = 3 V		24				
		V _{CC} = 4.5 V		32				
		$V_{CC} = 1.8 \text{ V} \pm 0.15 \text{ V}, 2.5 \text{ V} \pm 0.2 \text{ V}$		20				
Δt/Δν	Input transition rise or fall rate	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$		10	ns/V			
		$V_{CC} = 5 \text{ V} \pm 0.5 \text{ V}$		10				
T _A	Operating free-air temperature		-40	125	°C			

⁽¹⁾ 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.

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Electrical Characteristics

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

DADAMETED	TEST CONDITIONS		-40°C	to 85°C		–40°C	to 125°C		
PARAMETER	TEST CONDITIONS	V _{cc}	MIN	TYP ⁽¹⁾	MAX	MIN	TYP ⁽¹⁾	MAX	UNIT
	I _{OH} = -100 μA	1.65 V to 5.5 V	V _{CC} - 0.1			V _{CC} - 0.1			
	I _{OH} = -4 mA	1.65 V	1.2			1.2			
V _{OH}	$I_{OH} = -8 \text{ mA}$	2.3 V	1.9			1.9			V
	I _{OH} = -16 mA	3 V	2.4			2.4			
	I _{OH} = -24 mA	3 V	2.3			2.3			
	I _{OH} = -32 mA	4.5 V	3.8			3.8			
	I _{OL} = 100 μA	1.65 V to 5.5 V			0.1			0.1	
	I _{OL} = 4 mA	1.65 V			0.45			0.45	
V _{OL}	I _{OL} = 8 mA	2.3 V	0.3			0.3			V
	I _{OL} = 16 mA	3 V			0.4			0.4	
	I _{OL} = 24 mA	3 V			0.55			0.55	
	I _{OL} = 32 mA	4.5 V			0.55			0.55	
I _I All inputs	V _I = 5.5 V or GND	0 to 5.5 V			±5			±5	μA
I _{off}	V _I or V _O = 5.5 V	0			±10			±10	μA
Icc	V _I = 5.5 V or GND, I _O = 0	1.65 V to 5.5 V			10			10	μA
ΔI _{CC}	One input at V _{CC} – 0.6 V, Other inputs at V _{CC} or GND	3 V to 5.5 V			500			500	μA
Ci	V _I = V _{CC} or GND	3.3 V		3.5					pF

⁽¹⁾ All typical values are at $V_{CC} = 3.3 \text{ V}$, $T_A = 25^{\circ}\text{C}$.

Switching Characteristics

over recommended operating free-air temperature range, $C_L = 15 \text{ pF}$ (unless otherwise noted) (see Figure 1)

				SN74LVC1G27 -40°C to 85°C							
PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 1.8 V ± 0.15 V		V _{CC} = 2.5 V ± 0.2 V		V _{CC} = 3.3 V ± 0.3 V		V _{CC} = 5 V ± 0.5 V		UNIT
			MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t _{pd}	A, B, or C	Υ	2	18.2	1.2	6.2	1	4.5	0.8	3.1	ns

Switching Characteristics

over recommended operating free-air temperature range, C_L = 30 pF or 50 pF (unless otherwise noted) (see Figure 2)

				SN74LVC1G27 −40°C to 85°C							
PARAMETER	FROM (INPUT)	FROM TO (OUTPUT)		V _{CC} = 1.8 V ± 0.15 V		V _{CC} = 2.5 V ± 0.2 V		V _{CC} = 3.3 V ± 0.3 V		V _{CC} = 5 V ± 0.5 V	
			MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t _{pd}	A, B, or C	Υ	2.2	20.5	1.4	7.1	1.3	5.4	1	3.6	ns

Product Folder Links: SN74LVC1G27



Switching Characteristics

over recommended operating free-air temperature range, $C_L = 30 \text{ pF}$ or 50 pF (unless otherwise noted) (see Figure 2)

				SN74LVC1G27 -40°C to 125°C									
PARAMETER	FROM (INPUT)		TO (OUTPUT)		V _{CC} = 1.8 V ± 0.15 V		V _{CC} = 2.5 V ± 0.2 V		3.3 V V	V _{CC} = 5 V ± 0.5 V		UNIT	
				MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX		
t _{pd}	A, B, or C		Υ		23.3	1.4	8.8	1.3	6.8	1.0	4.7		
fmay			$C_L = 15 \text{ pF}$ $C_L = 50 \text{ pF}$		125	70		70		70			
fmax					75	45		45		45			
t _{PLH}	PRE or CLR	Q or Q	\overline{Q} $C_L = 15 pF$	7.6	12.3	1	14.5	1	14.5	1	14.5		
t _{PHL}	PRE OF CLR	QOIQ		7.6	12.3	1	14.5	1	14.5	1	14.5		
t _{PLH}	CLK	Q or Q	C _L = 15 pF	6.7	11.9	1	14	1	14	1	14	ns	
t _{PHL}	CLK	QUIQ	C _L = 15 pr	6.7	11.9	1	14	1	14	1	14		
t _{PLH}	PRE or CLR	Q or Q	C - 50 pF	10.1	15.8	1	18	1	18	1	18		
t _{PHL}	FRE OF CLR	QUIQ	\overline{Q} $C_L = 50 \text{ pF}$	10.1	15.8	1	18	1	18	1	18		
t _{PLH}	CLK	Q or Q	or \overline{Q} $C_L = 50 \text{ pF}$	9.2	15.4	1	17.5	1	17.5	1	17.5		
t _{PHL}	CLK	QUIQ		9.2	15.4	1	17.5	1	17.5	1	17.5		

Operating Characteristics

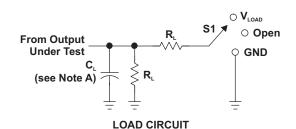
 $T_A = 25^{\circ}C$

PARAMETER		TEST	V _{CC} = 1.8 V	V _{CC} = 2.5 V	V _{CC} = 3.3 V	$V_{CC} = 5 V$	UNIT
		CONDITIONS	TYP	TYP	TYP	TYP	UNII
C_{pd}	Power dissipation capacitance	f = 10 MHz	17	18	19	22	pF

Product Folder Links: SN74LVC1G27

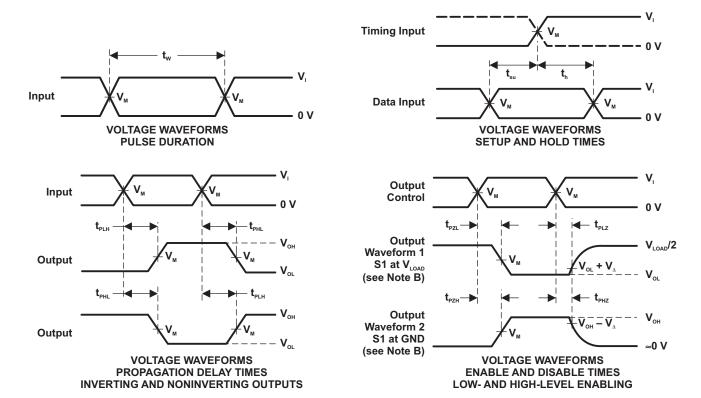


Parameter Measurement Information



TEST	S1
t _{PLH} /t _{PHL}	Open
t_{PLZ}/t_{PZL}	V _{LOAD}
t _{PHZ} /t _{PZH}	GND

.,	INPUTS			v		-	.,
V _{cc}	V,	t,/t,	t _r /t _f V _M V _{LOAD}		C ^r	R _⊾	V _A
1.8 V ± 0.15 V	V _{cc}	≤2 ns	V _{cc} /2	2 × V _{cc}	15 pF	1 M Ω	0.15 V
2.5 V ± 0.2 V	V _{cc}	≤2 ns	V _{cc} /2	2 × V _{cc}	15 pF	1 M Ω	0.15 V
3.3 V ± 0.3 V	3 V	≤2.5 ns	1.5 V	6 V	15 pF	1 M Ω	0.3 V
5 V ± 0.5 V	V _{cc}	≤2.5 ns	V _{cc} /2	2 × V _{cc}	15 pF	1 M Ω	0.3 V



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 10 MHz, Z_{\circ} = 50 Ω .
- D. The outputs are measured one at a time, with one transition per measurement.
- E. $t_{\mbox{\tiny PLZ}}$ and $t_{\mbox{\tiny PHZ}}$ are the same as $t_{\mbox{\tiny dis}}.$
- F. t_{PZL} and t_{PZH} are the same as t_{en} .
- G. t_{PLH} and t_{PHL} are the same as t_{pd} .
- H. All parameters and waveforms are not applicable to all devices.

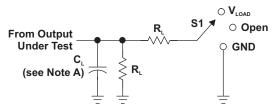
Figure 1. Load Circuit and Voltage Waveforms

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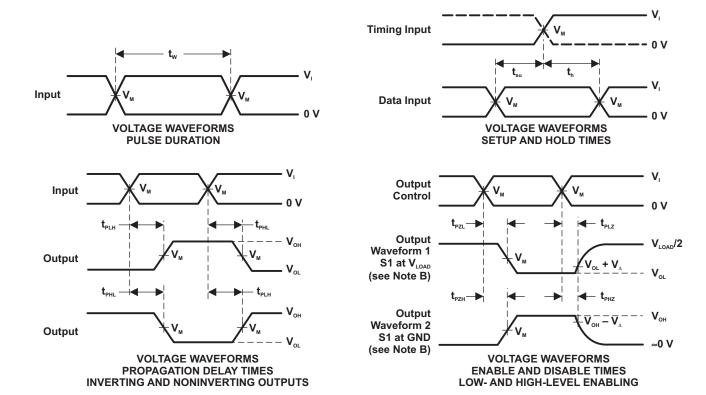
Parameter Measurement Information (continued)



TEST	S1
t _{PLH} /t _{PHL}	Open
$t_{_{\mathrm{PLZ}}}/t_{_{\mathrm{PZL}}}$	V _{LOAD}
t _{PHZ} /t _{PZH}	GND

LOAD CIRCUIT

	INPUTS		V	V	_	Б	V
V _{cc}	V,	t,/t,	V _M	V _{LOAD}	C _L	R _⊾	V _A
1.8 V ± 0.15 V	V _{cc}	≤2 ns	V _{cc} /2	2 × V _{cc}	30 pF	1 k Ω	0.15 V
2.5 V ± 0.2 V	V _{cc}	≤2 ns	V _{cc} /2	2 × V _{cc}	30 pF	500 Ω	0.15 V
3.3 V ± 0.3 V	3 V	≤2.5 ns	1.5 V	6 V	50 pF	500 Ω	0.3 V
5 V ± 0.5 V	V _{cc}	≤2.5 ns	V _{cc} /2	2 × V _{cc}	50 pF	500 Ω	0.3 V



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 10 MHz, Z_0 = 50 Ω .
- D. The outputs are measured one at a time, with one transition per measurement.
- E. t_{PLZ} and t_{PHZ} are the same as t_{dis} .
- F. t_{PZL} and t_{PZH} are the same as t_{en} .
- G. t_{PLH} and t_{PHL} are the same as t_{pd} .
- H. All parameters and waveforms are not applicable to all devices.

Figure 2. Load Circuit and Voltage Waveforms

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SCES488E - SEPTEMBER 2003 - REVISED DECEMBER 2013



REVISION HISTORY

CI	Changes from Revision D (January 2007) to Revision E						
•	Updated document to new TI data sheet format.	1					
•	Updated Features.	1					
•	Added DRY and DSF packages.	1					
•	Added ESD warning.	2					
•	Updated operating temperature range.	3					





5-Apr-2019

PACKAGING INFORMATION

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)	
SN74LVC1G27DBVR	ACTIVE	SOT-23	DBV	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU CU SN	Level-1-260C-UNLIM	-40 to 125	(C27F, C27K, C27R)	Samples
SN74LVC1G27DCKR	ACTIVE	SC70	DCK	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU CU SN	Level-1-260C-UNLIM	-40 to 125	(CU5, CUR)	Samples
SN74LVC1G27DCKRE4	ACTIVE	SC70	DCK	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	CU5	Samples
SN74LVC1G27DCKRG4	ACTIVE	SC70	DCK	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	CU5	Samples
SN74LVC1G27DRYR	ACTIVE	SON	DRY	6	5000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	CU	Samples
SN74LVC1G27DSFR	ACTIVE	SON	DSF	6	5000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	CU	Samples
SN74LVC1G27YZPR	ACTIVE	DSBGA	YZP	6	3000	Green (RoHS & no Sb/Br)	SNAGCU	Level-1-260C-UNLIM	-40 to 85	CUN	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) RoHS: TI defines "RoHS" to mean semiconductor products that are compliant with the current EU RoHS requirements for all 10 RoHS substances, including the requirement that RoHS substance do not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, "RoHS" products are suitable for use in specified lead-free processes. TI may reference these types of products as "Pb-Free".

RoHS Exempt: TI defines "RoHS Exempt" to mean products that contain lead but are compliant with EU RoHS pursuant to a specific EU RoHS exemption.

Green: TI defines "Green" to mean the content of Chlorine (CI) and Bromine (Br) based flame retardants meet JS709B low halogen requirements of <=1000ppm threshold. Antimony trioxide based flame retardants must also meet the <=1000ppm threshold requirement.

(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.



PACKAGE OPTION ADDENDUM

5-Apr-2019

(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.

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PACKAGE MATERIALS INFORMATION

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TAPE AND REEL INFORMATION





	Dimension designed to accommodate the component width
	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
SN74LVC1G27DBVR	SOT-23	DBV	6	3000	178.0	9.0	3.23	3.17	1.37	4.0	8.0	Q3
SN74LVC1G27DBVR	SOT-23	DBV	6	3000	180.0	8.4	3.23	3.17	1.37	4.0	8.0	Q3
SN74LVC1G27DCKR	SC70	DCK	6	3000	178.0	9.2	2.4	2.4	1.22	4.0	8.0	Q3
SN74LVC1G27DCKR	SC70	DCK	6	3000	178.0	9.0	2.4	2.5	1.2	4.0	8.0	Q3
SN74LVC1G27DCKRG4	SC70	DCK	6	3000	178.0	9.2	2.4	2.4	1.22	4.0	8.0	Q3
SN74LVC1G27DRYR	SON	DRY	6	5000	180.0	9.5	1.15	1.6	0.75	4.0	8.0	Q1
SN74LVC1G27DSFR	SON	DSF	6	5000	180.0	9.5	1.16	1.16	0.5	4.0	8.0	Q2
SN74LVC1G27YZPR	DSBGA	YZP	6	3000	178.0	9.2	1.02	1.52	0.63	4.0	8.0	Q1

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*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74LVC1G27DBVR	SOT-23	DBV	6	3000	180.0	180.0	18.0
SN74LVC1G27DBVR	SOT-23	DBV	6	3000	202.0	201.0	28.0
SN74LVC1G27DCKR	SC70	DCK	6	3000	180.0	180.0	18.0
SN74LVC1G27DCKR	SC70	DCK	6	3000	180.0	180.0	18.0
SN74LVC1G27DCKRG4	SC70	DCK	6	3000	180.0	180.0	18.0
SN74LVC1G27DRYR	SON	DRY	6	5000	184.0	184.0	19.0
SN74LVC1G27DSFR	SON	DSF	6	5000	184.0	184.0	19.0
SN74LVC1G27YZPR	DSBGA	YZP	6	3000	220.0	220.0	35.0





NOTES:

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

 2. This drawing is subject to change without notice.

 3. Reference JEDEC registration MO-287, variation X2AAF.





NOTES: (continued)

4. For more information, see Texas Instruments literature number SLUA271 (www.ti.com/lit/slua271).





4. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.





DIE SIZE BALL GRID ARRAY



NOTES:

NanoFree Is a trademark of Texas Instruments.

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

 2. This drawing is subject to change without notice.
- 3. NanoFree[™] package configuration.



DIE SIZE BALL GRID ARRAY



NOTES: (continued)

Final dimensions may vary due to manufacturing tolerance considerations and also routing constraints.
 For more information, see Texas Instruments literature number SBVA017 (www.ti.com/lit/sbva017).



DIE SIZE BALL GRID ARRAY



NOTES: (continued)

5. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release.





SMALL OUTLINE TRANSISTOR



NOTES:

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

 2. This drawing is subject to change without notice.

 3. Body dimensions do not include mold flash or protrusion. Mold flash and protrusion shall not exceed 0.15 per side.

- 4. Leads 1,2,3 may be wider than leads 4,5,6 for package orientation. 5. Refernce JEDEC MO-178.



SMALL OUTLINE TRANSISTOR



NOTES: (continued)

6. Publication IPC-7351 may have alternate designs.

7. Solder mask tolerances between and around signal pads can vary based on board fabrication site.



SMALL OUTLINE TRANSISTOR



NOTES: (continued)

- 8. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.
- 9. Board assembly site may have different recommendations for stencil design.





Images above are just a representation of the package family, actual package may vary. Refer to the product data sheet for package details.









NOTES:

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

 2. This drawing is subject to change without notice.





NOTES: (continued)

3. For more information, see QFN/SON PCB application report in literature No. SLUA271 (www.ti.com/lit/slua271).





NOTES: (continued)

Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.



DCK (R-PDSO-G6)

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. Mold flash and protrusion shall not exceed 0.15 per side.
- D. Falls within JEDEC MO-203 variation AB.



DCK (R-PDSO-G6)

PLASTIC SMALL OUTLINE



NOTES:

- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Customers should place a note on the circuit board fabrication drawing not to alter the center solder mask defined pad.
- D. Publication IPC-7351 is recommended for alternate designs.
- E. 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. Example stencil design based on a 50% volumetric metal load solder paste. Refer to IPC-7525 for other stencil recommendations.



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