

具有漏极开路输出的 SN74LVC1G07 单路缓冲器/驱动器

1 特性

- 采用具有 0.5mm 间距的超小型 0.64mm² 封装 (DPW)
- 支持 5V V_{CC} 运行
- 输入与开漏输出支持最高 5.5V 的电压
- 可进行上行或下行转换
- 3.3V 时 t_{pd} 最大值为 4.2ns
- 低功耗, I_{CC} 最大值为 10μA
- 3.3V 时, 输出驱动为 ±24mA
- I_{off} 支持带电插入、局部关断模式和后驱动保护
- 闩锁性能超过 100mA, 符合 JESD 78 II 类规范的要求
- ESD 保护性能超过 JESD 22 规范要求
 - 2000V 人体放电模型 (A114-A)
 - 200V 机器模型 (A115-A)
 - 1000V 充电器件模型 (C101)

2 应用

- AV 接收器
- 蓝光播放器与家庭影院
- DVD 录像机和播放器
- 台式机或笔记本电脑
- 数字音频广播或互联网广播播放器
- 数码摄像机 (DVC)
- 嵌入式 PC
- GPS: 个人导航器件
- 移动互联网设备
- 网络投影仪前端
- 便携式媒体播放器
- 专业音频混合器
- 烟雾探测器
- 固态硬盘 (SSD): 企业级
- 高清 (HDTV)
- 平板电脑: 企业级
- 音频接口盒: 便携式
- DLP 正投系统
- DVR 和 DVS
- 数码相框 (DPF)
- 数码相机

3 说明

该单路缓冲器/驱动器设计成在 1.65V 至 5.5V V_{CC} 下运行。

SN74LVC1G07 器件的输出为漏极开路, 可连接其它开漏输出, 从而实现低电平有效的连线 OR 或高电平有效的连线 AND 功能。最大灌电流为 32mA。

SN74LVC1G07 器件采用多种封装, 包括封装尺寸为 0.8mm × 0.8mm 的超小型 DPW 封装。

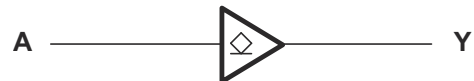
封装信息

器件名称	封装 ⁽¹⁾	封装尺寸 ⁽²⁾	本体尺寸 (标称值) ⁽³⁾
SN74LVC1G07	DBV (SOT-23 , 5)	2.9mm × 2.8mm	2.9mm × 1.6mm
	DCK (SC70 , 5)	2.0mm × 2.1mm	2.0mm × 1.25mm
	DPW (X2SON , 5)	0.8mm × 0.8mm	0.8mm × 0.8mm
	DRY (USON , 6)	1.45mm × 1.0mm	1.45mm × 1.0mm
	DSF (X2SON , 6)	1.0mm × 1.0mm	1.0mm × 1.0mm
	DRL (SOT-5X3 , 5)	1.6mm × 1.6mm	1.6mm × 1.2mm
	YZP (DSBGA , 6)	1.75mm × 1.25mm	1.38mm × 0.88mm
	YZV (DSBGA , 4)	1.25mm × 1.25mm	0.88mm × 0.88mm

(1) 如需了解所有可用封装, 请参阅数据表末尾的可订购产品附录。

(2) 封装尺寸 (长 × 宽) 为标称值, 并包括引脚 (如适用)。

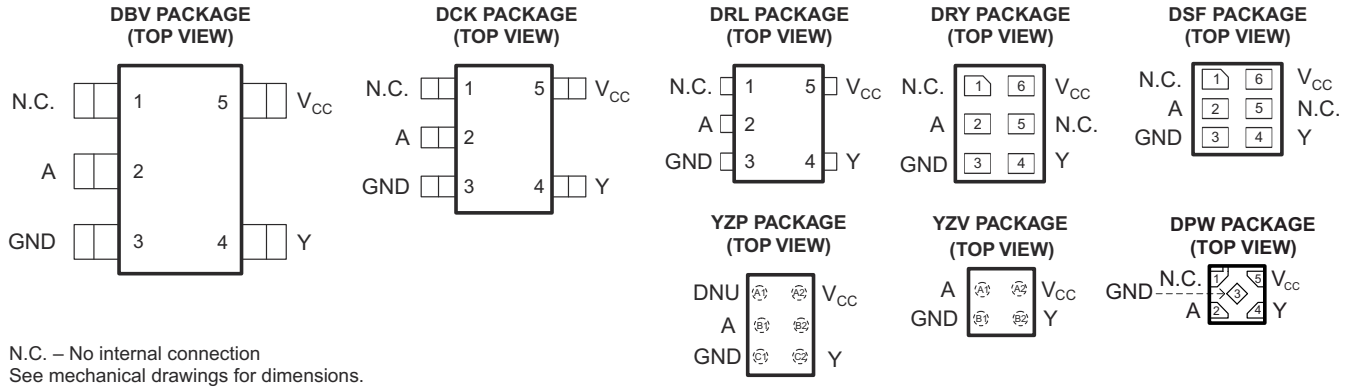
(3) 封装尺寸 (长 × 宽) 为标称值, 不包括引脚。



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4 引脚配置和功能



引脚功能

引脚						说明
名称	DBV、 DCK、DRL	DRY、DSF	DPW	YZP	YZV	
NC	1	1、5	1	A1、B2	-	未连接
A	2	2	2	B1	A1	输入
GND	3	3	3	C1	B1	接地
Y	4	4	4	C2	B2	输出
V _{CC}	5	6	5	A2	A2	电源引脚

5 规格

5.1 绝对最大额定值

在自然通风条件下的工作温度范围内测得（除非另有说明）⁽¹⁾

		最小值	最大值	单位
V_{CC}	电源电压范围	-0.5	6.5	V
V_I	输入电压范围 ⁽²⁾	-0.5	6.5	V
V_O	在高阻抗或断电状态对任一输出施加的电压范围 ⁽²⁾	-0.5	6.5	V
V_O	应用到任一处于高电平或低电平状态输出的电压范围 ^{(2) (3)}	-0.5	6.5	V
I_{IK}	输入钳位电流	$V_I < 0$	-50	mA
I_{OK}	输出钳位电流	$V_O < 0$	-50	mA
I_O	持续输出电流		±50	mA
	通过 V_{CC} 或 GND 的持续电流		±100	mA
T_{stg}	贮存温度范围	-65	150	°C
T_j	结温范围		150	°C

- (1) 超出**绝对最大额定值**下列出的值的应力可能会对器件造成永久损坏。这些仅为压力额定值，并不表示器件在这些条件下以及在**建议运行条件**以外的任何其他条件下能够正常运行。长时间处于绝对最大额定条件下可能会影响器件的可靠性。
- (2) 如果遵守输入和输出电流额定值，则可能会超过输入和输出负电压额定值。
- (3) V_{CC} 的值在**建议运行条件**表中提供。

5.2 ESD 等级

		最小值	最大值	单位	
$V_{(ESD)}$	静电放电	人体放电模型 (HBM), 符合 ANSI/ESDA/JEDEC JS-001 标准, 所有引脚 ⁽¹⁾	0	2000	V
		充电器件模型 (CDM), 符合 JEDEC 规范 JESD22-C101, 所有引脚 ⁽²⁾	0	1000	

- (1) JEDEC 文档 JEP155 指出：500V HBM 能够在标准 ESD 控制流程下安全生产。
- (2) JEDEC 文档 JEP157 指出：250V CDM 能够在标准 ESD 控制流程下安全生产。

5.3 建议运行条件

在自然通风条件下的工作温度范围内测得 (除非另有说明) ⁽¹⁾

		最小值	最大值	单位	
V _{CC}	电源电压	工作	1.65	5.5	V
		仅数据保留	1.5		
V _{IH}	高电平输入电压	V _{CC} = 1.65V 至 1.95V	0.65 × V _{CC}		V
		V _{CC} = 2.3V 至 2.7V	1.7		
		V _{CC} = 3V 至 3.6V	2		
		V _{CC} = 4.5V 至 5.5V	0.7 × V _{CC}		
V _{IL}	低电平输入电压	V _{CC} = 1.65V 至 1.95V		0.35 × V _{CC}	V
		V _{CC} = 2.3V 至 2.7V		0.7	
		V _{CC} = 3V 至 3.6V		0.8	
		V _{CC} = 4.5V 至 5.5V		0.3 × V _{CC}	
V _I	输入电压	0	5.5	V	
V _O	输出电压	0	5.5	V	
I _{OL}	低电平输出电流	V _{CC} = 1.65V		4	mA
		V _{CC} = 2.3V		8	
		V _{CC} = 3V		16	
				24	
		V _{CC} = 4.5V		32	
Δt/Δv	输入转换上升或下降速率	V _{CC} = 1.8V ± 0.15V, 2.5V ± 0.2V		20	ns/V
		V _{CC} = 3.3V ± 0.3V		10	
		V _{CC} = 5V ± 0.5V		5	
T _A	自然通风条件下的工作温度范围	DSBGA 封装	-40	85	°C
		所有其他封装	-40	125	

(1) 器件的所有未使用输入必须保持在 V_{CC} 或 GND，以确保器件正常运行。请参阅 TI 应用报告 **CMOS 输入缓慢或悬空的影响**，文献编号 SCBA004。

5.4 热性能信息

热指标 ⁽¹⁾	SN74LVC1G07						单位
	DBV	DCK	DRL	DRY	YZP	DPW	
	5 引脚	5 引脚	5 引脚	6 引脚	5 引脚	4 引脚	
R _{θJA} 结至环境热阻	357.1	371.0	243	439	130	340	°C/W
R _{θJC(top)} 结至外壳 (顶部) 热阻	263.7	297.5	78	277	54	215	
R _{θJB} 结至电路板热阻	264.4	258.6	78	271	51	294	
ψ _{JT} 结至顶部特征参数	195.6	195.6	10	84	1	41	
ψ _{JB} 结至电路板特征参数	262.2	256.2	77	271	50	294	
R _{θJC(bot)} 结至外壳 (底部) 热阻	-	-	-	-	-	250	

(1) 有关新旧热指标的更多信息，请参阅 **半导体和 IC 封装热指标** 应用手册。

5.5 电气特性

在自然通风条件下的建议运行温度范围内测得（除非另有说明）

参数	测试条件	V _{CC}	-40°C 至 85°C		建议 -40°C 至 125°C		单位
			典型值 ⁽¹⁾	最大值	典型值	最大值	
V _{OL}	I _{OL} = 100μA	1.65V 至 5.5V		0.1		0.1	V
	I _{OL} = 4mA	1.65V		0.45		0.45	
	I _{OL} = 8mA	2.3V		0.3		0.3	
	I _{OL} = 16mA	3V		0.4		0.4	
	I _{OL} = 24mA			0.55		0.55	
	I _{OL} = 32mA	4.5V		0.55		0.55	
I _I	A 输入 V _I = 5.5V 或 GND	0 至 5.5V		±5		±5	μA
I _{off}	V _I 或 V _O = 5.5V	0		±10		±10	μA
I _{CC}	V _I = 5.5V 或 GND, I _O = 0	1.65V 至 5.5V		10		10	μA
ΔI _{CC}	一个输入电压为 V _{CC} - 0.6V, 其他输入电压为 V _{CC} 或 GND	3V 至 5.5V		500		500	μA
C _i	V _I = V _{CC} 或 GND	3.3V		4		4	pF
C _o	V _O = V _{CC} 或 GND	3.3V		5		5	pF

(1) 所有典型值均在 V_{CC} = 3.3V、T_A = 25°C 下测得。

5.6 开关特性，-40°C 至 85°C

在自然通风条件下的建议工作温度范围内测得（除非另有说明）（请参阅图 6-1）

参数	从 (输入)	至 (输出)	-40°C 至 85°C								单位
			V _{CC} = 1.8V ± 0.15V		V _{CC} = 2.5V ± 0.2V		V _{CC} = 3.3V ± 0.3V		V _{CC} = 5V ± 0.5V		
			最小值	最大值	最小值	最大值	最小值	最大值	最小值	最大值	
t _{pd}	A	Y	2.4	8.3	1	5.5	1.5	4.2	1	3.5	ns

5.7 开关特性，-40°C 至 125°C

在自然通风条件下的建议工作温度范围内测得（除非另有说明）（请参阅图 6-1）

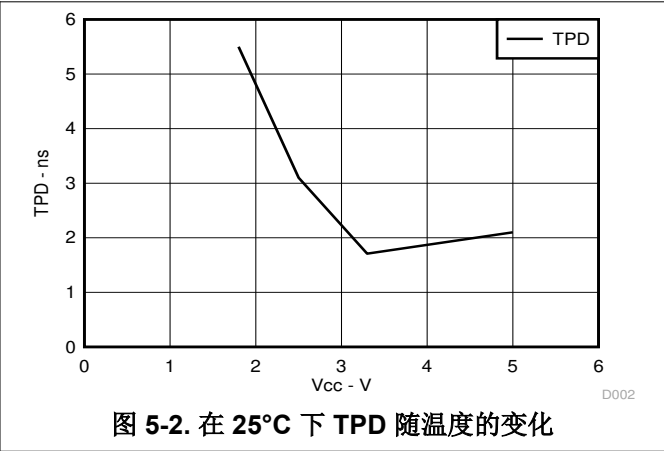
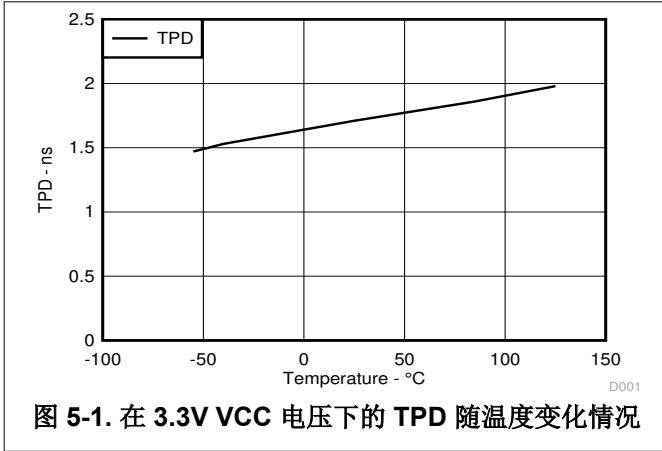
参数	从 (输入)	至 (输出)	建议 -40°C 至 125°C								单位
			V _{CC} = 1.8V ± 0.15V		V _{CC} = 2.5V ± 0.2V		V _{CC} = 3.3V ± 0.3V		V _{CC} = 5V ± 0.5V		
			最小值	最大值	最小值	最大值	最小值	最大值	最小值	最大值	
t _{pd}	A	Y	2.4	8.6	1	6	1.5	4.7	1	4	ns

5.8 工作特性

T_A = 25°C

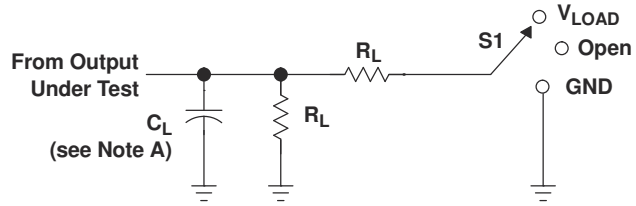
参数	测试条件	V _{CC} = 1.8V	V _{CC} = 2.5V	V _{CC} = 3.3V	V _{CC} = 5V	单位
		典型值	典型值	典型值	典型值	
C _{pd} 功率耗散电容	f = 10MHz	3	3	4	6	pF

5.9 典型特性



6 参数测量信息

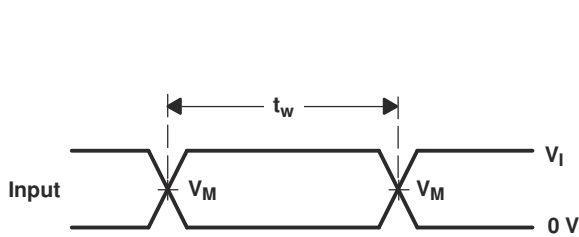
6.1 (开漏)



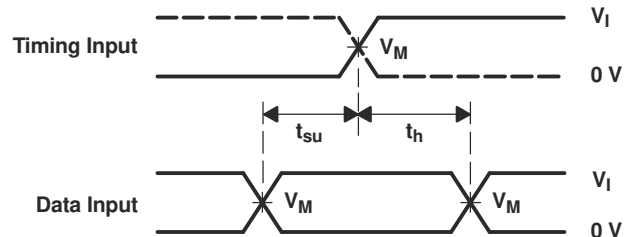
TEST	S1
t_{pZL} (see Notes E and F)	V_{LOAD}
t_{pLZ} (see Notes E and G)	V_{LOAD}
t_{PHZ}/t_{PZH}	V_{LOAD}

LOAD CIRCUIT

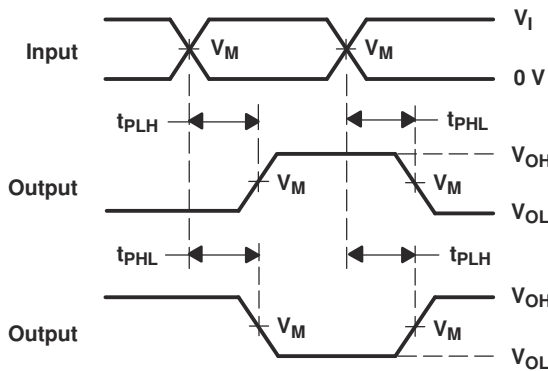
V_{CC}	INPUT		V_M	V_{LOAD}	C_L	R_L	V_{Δ}
	V_I	t_r/t_f					
$1.8\text{ V} \pm 0.15\text{ V}$	V_{CC}	$\leq 2\text{ ns}$	$V_{CC}/2$	$2 \times V_{CC}$	30 pF	1 k Ω	0.15 V
$2.5\text{ V} \pm 0.2\text{ V}$	V_{CC}	$\leq 2\text{ ns}$	$V_{CC}/2$	$2 \times V_{CC}$	30 pF	500 Ω	0.15 V
$3.3\text{ V} \pm 0.3\text{ V}$	3 V	$\leq 2.5\text{ ns}$	1.5 V	6 V	50 pF	500 Ω	0.3 V
$5\text{ V} \pm 0.5\text{ V}$	V_{CC}	$\leq 2.5\text{ ns}$	$V_{CC}/2$	$2 \times V_{CC}$	50 pF	500 Ω	0.3 V



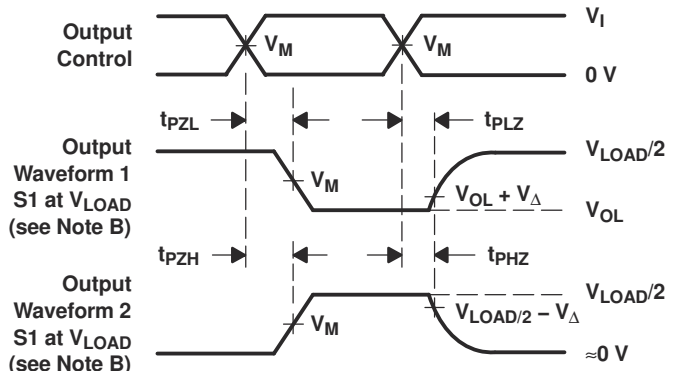
VOLTAGE WAVEFORMS
PULSE DURATION



VOLTAGE WAVEFORMS
SETUP AND HOLD TIMES



VOLTAGE WAVEFORMS
PROPAGATION DELAY TIMES
INVERTING AND NONINVERTING OUTPUTS



VOLTAGE WAVEFORMS
ENABLE AND DISABLE TIMES
LOW- AND HIGH-LEVEL ENABLING

- NOTES:
- C_L includes probe and jig capacitance.
 - 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.
 - All input pulses are supplied by generators having the following characteristics: $PRR \leq 10\text{ MHz}$, $Z_O = 50\ \Omega$.
 - The outputs are measured one at a time, with one transition per measurement.
 - Since this device has open-drain outputs, t_{pLZ} and t_{pZL} are the same as t_{pd} .
 - t_{pZL} is measured at V_M .
 - t_{pLZ} is measured at $V_{OL} + V_{\Delta}$.
 - All parameters and waveforms are not applicable to all devices.

图 6-1. 负载电路和电压波形

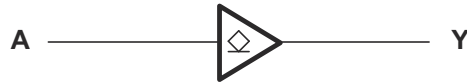
7 详细说明

7.1 概述

SN74LVC1G07 器件包含一个最大灌电流为 32mA 的开漏 缓冲器。该器件专用于使用 I_{off} 的局部断电应用。 I_{off} 电路可禁用输出，以防在器件断电时电流回流对器件造成损坏。

DPW 封装技术是 IC 封装中的一项重大突破。DPW 0.64mm² 的封装尺寸较之其他封装选项可显著节省布板空间，同时仍保留方便制造的 0.5mm 传统引线间距。

7.2 功能方框图



7.3 特性说明

- 宽工作电压范围。
 - 可在 1.65V 至 5.5V 范围内工作。
- 支持降压转换。
- 输入和输出支持高达 5.5V 电压。
- I_{off} 特性允许在 V_{CC} 为 0V 时在输入和输出上产生电压。

7.4 器件功能模式

功能表

输入 A	输出 Y
L	L
H	Z

8 应用和实施

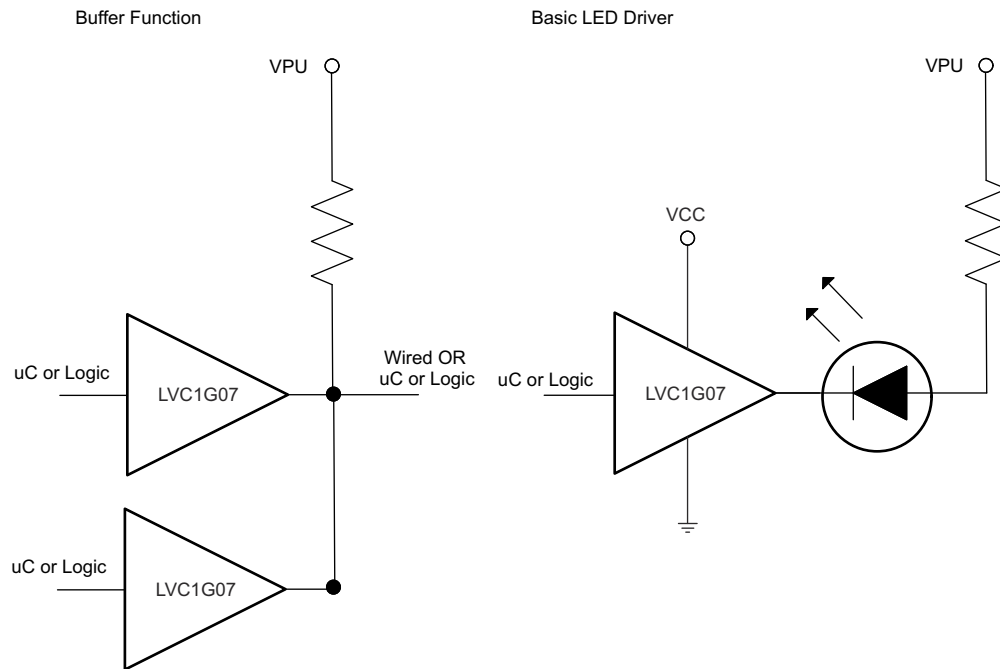
备注

以下应用部分中的信息不属于 TI 器件规格的范围，TI 不担保其准确性和完整性。TI 的客户应负责确定器件是否适用于其应用。客户应验证并测试其设计，以确保系统功能。

8.1 应用信息

SN74LVC1G07 是一款高驱动 CMOS 器件，可用于实现高输出驱动缓冲器，例如 LED 应用。它可以在 4.5V 时灌入 32mA 电流，因此非常适合高驱动应用以及有线 OR/AND 功能。它非常适合高达 100MHz 的高速应用。输入可耐受 5.5V 电压，允许将其升压降压转换至 V_{CC} 。

8.2 典型应用



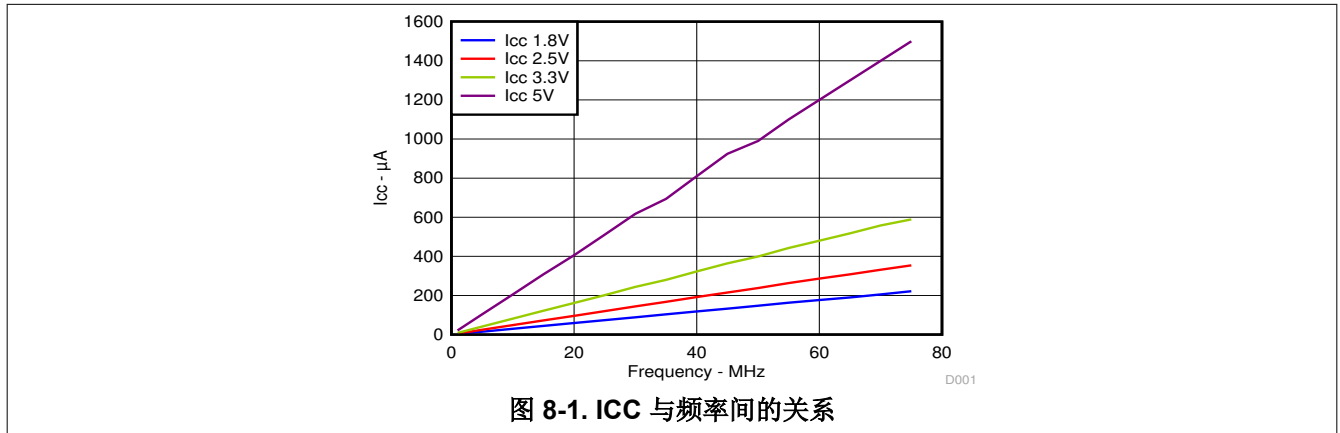
8.2.1 设计要求

此器件采用 CMOS 技术并具有平衡输出驱动。注意避免总线争用，因为它可以驱动超过最大限制的电流。高驱动也会在轻负载时产生快速边缘，因此应考虑布线和负载条件以防止振铃。

8.2.2 详细设计过程

1. 建议的输入条件
 - 上升时间和下降时间规格。请参阅 [建议运行条件](#) 表中的 $\Delta t / \Delta V$ 。
 - 指定的高电平和低电平。请参阅 [建议运行条件](#) 表中的 V_{IH} 和 V_{IL} 。
 - 输入可耐受过压，允许它们在任何有效 V_{CC} 下高达 [建议运行条件](#) 表中的 (V_I 最大值)。
2. 建议的输出条件
 - 每路输出的负载电流不应超过 (I_O 最大值)，且不能超过该器件的总电流 (通过 V_{CC} 或 GND 的持续电流)。这些限值位于 [绝对最大额定值](#) 表中。
 - 输出不应被拉至高于 5.5V。

8.2.3 应用曲线



8.3 电源相关建议

电源可以是 [建议运行条件](#) 表中最小和最大电源电压额定值之间的任何电压。

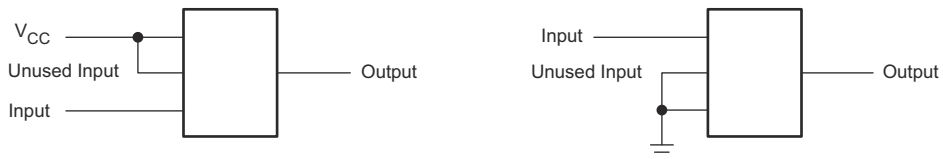
每个 VCC 引脚应具有一个良好的旁路电容器，以防止功率干扰。对于单电源器件，建议使用 0.1µF 电容器。如果有多个 VCC 引脚，则建议每个电源引脚使用 0.01 µF 或 0.022 µF 电容器。可以并联多个旁路电容器以抑制不同的噪声频率。0.1 µF 和 1 µF 电容器通常并联使用。为了获得更佳效果，旁路电容器应尽可能靠近电源引脚安装。

8.4 布局

8.4.1 布局指南

当使用多位逻辑器件时，输入决不能悬空。在许多情况下，未使用数字逻辑器件的全部或部分功能；例如，仅使用三输入与门的两个输入或仅使用 4 个缓冲门中的 3 个。此类输入引脚不应悬空，因为外部连接处的未定义电压会导致未定义的运行状态。以下指定了在所有情况下都必须遵守的规则。数字逻辑器件的所有未使用输入必须连接至高或低偏置以防悬空。应根据器件的功能为任何特定未使用的输入施加逻辑电平。通常，将这些输入连接到 GND 或 VCC，以较方便的一端为准。

8.4.2 布局示例



9 器件和文档支持

9.1 接收文档更新通知

要接收文档更新通知，请导航至 ti.com 上的器件产品文件夹。点击 [通知](#) 进行注册，即可每周接收产品信息更改摘要。有关更改的详细信息，请查看任何已修订文档中包含的修订历史记录。

9.2 支持资源

[TI E2E™ 中文支持论坛](#) 是工程师的重要参考资料，可直接从专家处获得快速、经过验证的解答和设计帮助。搜索现有解答或提出自己的问题，获得所需的快速设计帮助。

链接的内容由各个贡献者“按原样”提供。这些内容并不构成 TI 技术规范，并且不一定反映 TI 的观点；请参阅 TI 的 [使用条款](#)。

9.3 商标

TI E2E™ is a trademark of Texas Instruments.

所有商标均为其各自所有者的财产。

9.4 静电放电警告



静电放电 (ESD) 会损坏这个集成电路。德州仪器 (TI) 建议通过适当的预防措施处理所有集成电路。如果不遵守正确的处理和安装程序，可能会损坏集成电路。

ESD 的损坏小至导致微小的性能降级，大至整个器件故障。精密的集成电路可能更容易受到损坏，这是因为非常细微的参数更改都可能会导致器件与其发布的规格不相符。

9.5 术语表

[TI 术语表](#) 本术语表列出并解释了术语、首字母缩略词和定义。

10 修订历史记录

注：以前版本的页码可能与当前版本的页码不同

Changes from Revision AF (June 2025) to Revision AG (October 2025)	Page
• 将 DCK 封装的结至环境热阻值从：278°C/W 更改为：371.0°C/W.....	5
• 将 DCK 封装的结至外壳（顶部）热阻值从：93°C/W 更改为：297.5°C/W.....	5
• 将 DCK 封装的结至电路板热阻值从：65°C/W 更改为：258.6°C/W.....	5
• 将 DCK 封装的结至顶部特征值从：2°C/W 更改为：195.6°C/W.....	5
• 将 DCK 封装的结至电路板特征值从：64°C/W 更改为：256.2°C/W.....	5

Changes from Revision AE (September 2020) to Revision AF (June 2025)	Page
• 将 <i>器件信息</i> 表更改为 <i>封装信息</i>	1
• 将 DBV 封装的结至环境热阻值从：229°C/W 更改为：357.1°C/W.....	5
• 将 DBV 封装的结至外壳（顶部）热阻值从：164°C/W 更改为：263.7°C/W.....	5
• 将 DBV 封装的结至电路板热阻值从：62°C/W 更改为：264.4°C/W.....	5
• 将 DBV 封装的结至顶部特征值从：44°C/W 更改为：195.6°C/W.....	5
• 将 DBV 封装的结至电路板特征值从：62°C/W 更改为：262.2°C/W.....	5

Changes from Revision AD (May 2016) to Revision AE (September 2020)	Page
• 更新了整个文档中的表格、图和交叉参考的编号格式.....	1

11 机械、封装和可订购信息

以下页面包含机械、封装和可订购信息。这些信息是指定器件可用的最新数据。数据如有变更，恕不另行通知，且不会对此文档进行修订。有关此数据表的浏览器版本，请查阅左侧的导航栏。

PACKAGING INFORMATION

Orderable part number	Status (1)	Material type (2)	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material (4)	MSL rating/ Peak reflow (5)	Op temp (°C)	Part marking (6)
SN74LVC1G07DBVR	Active	Production	SOT-23 (DBV) 5	3000 LARGE T&R	Yes	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	(C075, C07F, C07J, C07K, C07R, C07T) (C07H, C07P, C07S)
SN74LVC1G07DBVR.A	Active	Production	SOT-23 (DBV) 5	3000 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	(C075, C07F, C07J, C07K, C07R, C07T) (C07H, C07P, C07S)
SN74LVC1G07DBVR.B	Active	Production	SOT-23 (DBV) 5	3000 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	(C075, C07F, C07J, C07K, C07R, C07T) (C07H, C07P, C07S)
SN74LVC1G07DBVRE4	Active	Production	SOT-23 (DBV) 5	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	C07F
SN74LVC1G07DBVRG4	Active	Production	SOT-23 (DBV) 5	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	C07F
SN74LVC1G07DBVRG4.A	Active	Production	SOT-23 (DBV) 5	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	C07F
SN74LVC1G07DBVRG4.B	Active	Production	SOT-23 (DBV) 5	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	C07F
SN74LVC1G07DBVT	Active	Production	SOT-23 (DBV) 5	250 SMALL T&R	Yes	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	(C075, C07F, C07J, C07K, C07R) (C07H, C07P, C07S)
SN74LVC1G07DBVT.B	Active	Production	SOT-23 (DBV) 5	250 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	(C075, C07F, C07J, C07K, C07R) (C07H, C07P, C07S)
SN74LVC1G07DBVTE4	Active	Production	SOT-23 (DBV) 5	250 SMALL T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	C07F
SN74LVC1G07DBVTG4	Active	Production	SOT-23 (DBV) 5	250 SMALL T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	C07F
SN74LVC1G07DBVTG4.B	Active	Production	SOT-23 (DBV) 5	250 SMALL T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	C07F
SN74LVC1G07DCK3	Obsolete	Production	SC70 (DCK) 5	-	-	Call TI	Call TI	-40 to 125	(CVF, CVZ)

Orderable part number	Status (1)	Material type (2)	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material (4)	MSL rating/ Peak reflow (5)	Op temp (°C)	Part marking (6)
SN74LVC1G07DCKR	Active	Production	SC70 (DCK) 5	3000 LARGE T&R	Yes	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	(1X7, CV5, CVF, CV J, CVK, CVR, C VT) (CVH, CVP, CVS)
SN74LVC1G07DCKR.A	Active	Production	SC70 (DCK) 5	3000 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	(1X7, CV5, CVF, CV J, CVK, CVR, C VT) (CVH, CVP, CVS)
SN74LVC1G07DCKR.B	Active	Production	SC70 (DCK) 5	3000 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	(1X7, CV5, CVF, CV J, CVK, CVR, C VT) (CVH, CVP, CVS)
SN74LVC1G07DCKRE4	Active	Production	SC70 (DCK) 5	3000 null	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	(CV5, CVF, CVK, CV R) (CVH, CVP, CVS)
SN74LVC1G07DCKRE4.B	Active	Production	SC70 (DCK) 5	3000 null	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	(CV5, CVF, CVK, CV R) (CVH, CVP, CVS)
SN74LVC1G07DCKRG4	Active	Production	SC70 (DCK) 5	3000 null	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	CV5
SN74LVC1G07DCKRG4.B	Active	Production	SC70 (DCK) 5	3000 null	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	CV5
SN74LVC1G07DCKT	Active	Production	SC70 (DCK) 5	250 SMALL T&R	Yes	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	(CV5, CVF, CVJ, CV K, CVR, CVT) CVH
SN74LVC1G07DCKT.B	Active	Production	SC70 (DCK) 5	250 SMALL T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	(CV5, CVF, CVJ, CV K, CVR, CVT) CVH
SN74LVC1G07DCKTE4	Active	Production	SC70 (DCK) 5	250 SMALL T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	(CV5, CVF, CVK, CV R) CVH
SN74LVC1G07DCKTE4.B	Active	Production	SC70 (DCK) 5	250 SMALL T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	(CV5, CVF, CVK, CV R) CVH
SN74LVC1G07DCKTG4	Active	Production	SC70 (DCK) 5	250 SMALL T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	(CV5, CVF, CVK, CV R) CVH

Orderable part number	Status (1)	Material type (2)	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material (4)	MSL rating/ Peak reflow (5)	Op temp (°C)	Part marking (6)
SN74LVC1G07DCKTG4.B	Active	Production	SC70 (DCK) 5	250 SMALL T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	(CV5, CVF, CVK, CVR) CVH
SN74LVC1G07DPWR	Active	Production	X2SON (DPW) 5	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	L4
SN74LVC1G07DPWR.B	Active	Production	X2SON (DPW) 5	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	L4
SN74LVC1G07DRLR	Active	Production	SOT-5X3 (DRL) 5	4000 LARGE T&R	Yes	NIPDAUAG	Level-1-260C-UNLIM	-40 to 125	(CV7, CVR)
SN74LVC1G07DRLR.B	Active	Production	SOT-5X3 (DRL) 5	4000 LARGE T&R	Yes	NIPDAUAG	Level-1-260C-UNLIM	-40 to 125	(CV7, CVR)
SN74LVC1G07DRLRG4	Active	Production	SOT-5X3 (DRL) 5	4000 LARGE T&R	Yes	NIPDAUAG	Level-1-260C-UNLIM	-40 to 125	(CV7, CVR)
SN74LVC1G07DRY2	Active	Production	SON (DRY) 6	5000 LARGE T&R	Yes	NIPDAU NIPDAUAG	Level-1-260C-UNLIM	-40 to 125	CV
SN74LVC1G07DRY2.B	Active	Production	SON (DRY) 6	5000 LARGE T&R	Yes	NIPDAUAG	Level-1-260C-UNLIM	-40 to 125	CV
SN74LVC1G07DRYR	Active	Production	SON (DRY) 6	5000 LARGE T&R	Yes	Call TI Nipdauag Nipdau	Level-1-260C-UNLIM	-40 to 125	CV
SN74LVC1G07DRYR.B	Active	Production	SON (DRY) 6	5000 LARGE T&R	Yes	NIPDAUAG	Level-1-260C-UNLIM	-40 to 125	CV
SN74LVC1G07DRYRG4	Active	Production	SON (DRY) 6	5000 LARGE T&R	Yes	NIPDAUAG	Level-1-260C-UNLIM	-40 to 125	CV
SN74LVC1G07DSF2	Active	Production	SON (DSF) 6	5000 LARGE T&R	Yes	NIPDAU NIPDAUAG	Level-1-260C-UNLIM	-40 to 125	CV
SN74LVC1G07DSF2.B	Active	Production	SON (DSF) 6	5000 LARGE T&R	Yes	NIPDAUAG	Level-1-260C-UNLIM	-40 to 125	CV
SN74LVC1G07DSFR	Active	Production	SON (DSF) 6	5000 LARGE T&R	Yes	NIPDAU NIPDAUAG	Level-1-260C-UNLIM	-40 to 125	CV
SN74LVC1G07DSFR.B	Active	Production	SON (DSF) 6	5000 LARGE T&R	Yes	NIPDAUAG	Level-1-260C-UNLIM	-40 to 125	CV
SN74LVC1G07YZPR	Active	Production	DSBGA (YZP) 5	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	(CV7, CVN)
SN74LVC1G07YZPR.B	Active	Production	DSBGA (YZP) 5	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	(CV7, CVN)
SN74LVC1G07YZVR	Active	Production	DSBGA (YZV) 4	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	CV N
SN74LVC1G07YZVR.B	Active	Production	DSBGA (YZV) 4	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	CV N

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

(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.

(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.

Important Information and Disclaimer: The information provided on this page represents TI's knowledge and belief as of the date that it is provided. TI bases its knowledge and belief on information provided by third parties, and makes no representation or warranty as to the accuracy of such information. Efforts are underway to better integrate information from third parties. TI has taken and continues to take reasonable steps to provide representative and accurate information but may not have conducted destructive testing or chemical analysis on incoming materials and chemicals. TI and TI suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.

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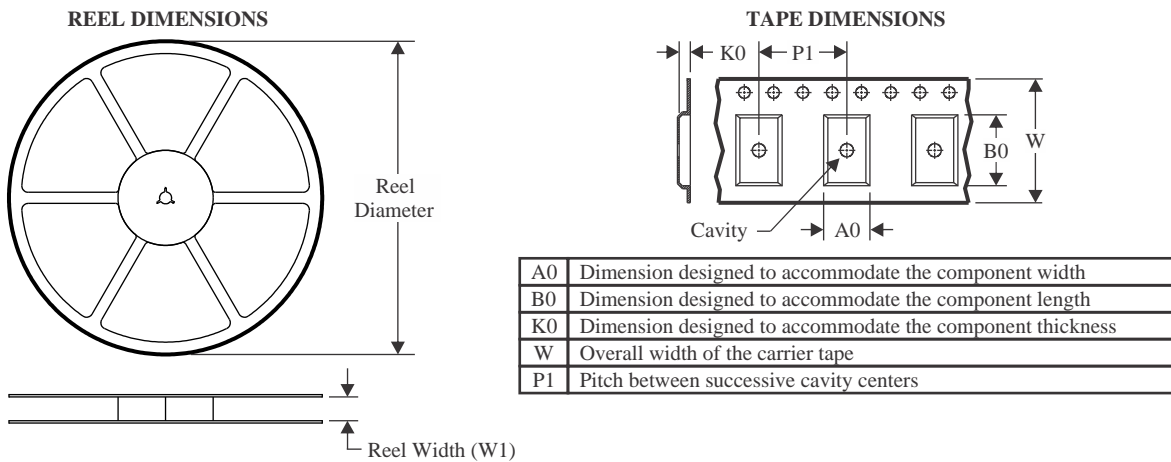
OTHER QUALIFIED VERSIONS OF SN74LVC1G07 :

- Automotive : [SN74LVC1G07-Q1](#)
- Enhanced Product : [SN74LVC1G07-EP](#)

NOTE: Qualified Version Definitions:

- Automotive - Q100 devices qualified for high-reliability automotive applications targeting zero defects
- Enhanced Product - Supports Defense, Aerospace and Medical Applications

TAPE AND REEL INFORMATION



QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74LVC1G07DBVR	SOT-23	DBV	5	3000	180.0	8.4	3.2	3.2	1.4	4.0	8.0	Q3
SN74LVC1G07DBVRG4	SOT-23	DBV	5	3000	178.0	9.0	3.23	3.17	1.37	4.0	8.0	Q3
SN74LVC1G07DBVT	SOT-23	DBV	5	250	180.0	8.4	3.2	3.2	1.4	4.0	8.0	Q3
SN74LVC1G07DBVTG4	SOT-23	DBV	5	250	178.0	9.0	3.23	3.17	1.37	4.0	8.0	Q3
SN74LVC1G07DCKR	SC70	DCK	5	3000	178.0	9.0	2.4	2.5	1.2	4.0	8.0	Q3
SN74LVC1G07DCKR	SC70	DCK	5	3000	178.0	8.4	2.25	2.45	1.2	4.0	8.0	Q3
SN74LVC1G07DCKT	SC70	DCK	5	250	178.0	9.0	2.4	2.5	1.2	4.0	8.0	Q3
SN74LVC1G07DCKTE4	SC70	DCK	5	250	180.0	8.4	2.47	2.3	1.25	4.0	8.0	Q3
SN74LVC1G07DCKTE4	SC70	DCK	5	250	178.0	9.2	2.4	2.4	1.22	4.0	8.0	Q3
SN74LVC1G07DCKTE4	SC70	DCK	5	250	178.0	9.0	2.4	2.5	1.2	4.0	8.0	Q3
SN74LVC1G07DCKTG4	SC70	DCK	5	250	178.0	9.2	2.4	2.4	1.22	4.0	8.0	Q3
SN74LVC1G07DCKTG4	SC70	DCK	5	250	178.0	9.0	2.4	2.5	1.2	4.0	8.0	Q3
SN74LVC1G07DCKTG4	SC70	DCK	5	250	180.0	8.4	2.47	2.3	1.25	4.0	8.0	Q3
SN74LVC1G07DPWR	X2SON	DPW	5	3000	178.0	8.4	0.91	0.91	0.5	2.0	8.0	Q3
SN74LVC1G07DRLR	SOT-5X3	DRL	5	4000	180.0	8.4	1.98	1.78	0.69	4.0	8.0	Q3
SN74LVC1G07DRY2	SON	DRY	6	5000	180.0	9.5	1.6	1.15	0.75	4.0	8.0	Q3

Device	Package Type	Package Drawing	Pins	SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74LVC1G07DRYR	SON	DRY	6	5000	180.0	9.5	1.2	1.65	0.7	4.0	8.0	Q1
SN74LVC1G07DSF2	SON	DSF	6	5000	180.0	9.5	1.16	1.16	0.5	4.0	8.0	Q3
SN74LVC1G07DSFR	SON	DSF	6	5000	180.0	9.5	1.16	1.16	0.5	4.0	8.0	Q2
SN74LVC1G07YZPR	DSBGA	YZP	5	3000	178.0	9.2	1.02	1.52	0.63	4.0	8.0	Q1
SN74LVC1G07YZVR	DSBGA	YZV	4	3000	178.0	9.2	1.0	1.0	0.63	4.0	8.0	Q1

TAPE AND REEL BOX DIMENSIONS


*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74LVC1G07DBVR	SOT-23	DBV	5	3000	210.0	185.0	35.0
SN74LVC1G07DBVRG4	SOT-23	DBV	5	3000	180.0	180.0	18.0
SN74LVC1G07DBVT	SOT-23	DBV	5	250	210.0	185.0	35.0
SN74LVC1G07DBVTG4	SOT-23	DBV	5	250	180.0	180.0	18.0
SN74LVC1G07DCKR	SC70	DCK	5	3000	180.0	180.0	18.0
SN74LVC1G07DCKR	SC70	DCK	5	3000	208.0	191.0	35.0
SN74LVC1G07DCKT	SC70	DCK	5	250	180.0	180.0	18.0
SN74LVC1G07DCKTE4	SC70	DCK	5	250	202.0	201.0	28.0
SN74LVC1G07DCKTE4	SC70	DCK	5	250	180.0	180.0	18.0
SN74LVC1G07DCKTE4	SC70	DCK	5	250	180.0	180.0	18.0
SN74LVC1G07DCKTG4	SC70	DCK	5	250	180.0	180.0	18.0
SN74LVC1G07DCKTG4	SC70	DCK	5	250	180.0	180.0	18.0
SN74LVC1G07DCKTG4	SC70	DCK	5	250	202.0	201.0	28.0
SN74LVC1G07DPWR	X2SON	DPW	5	3000	205.0	200.0	33.0
SN74LVC1G07DRLR	SOT-5X3	DRL	5	4000	202.0	201.0	28.0
SN74LVC1G07DRY2	SON	DRY	6	5000	184.0	184.0	19.0
SN74LVC1G07DRYR	SON	DRY	6	5000	189.0	185.0	36.0
SN74LVC1G07DSF2	SON	DSF	6	5000	184.0	184.0	19.0

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74LVC1G07DSFR	SON	DSF	6	5000	184.0	184.0	19.0
SN74LVC1G07YZPR	DSBGA	YZP	5	3000	220.0	220.0	35.0
SN74LVC1G07YZVR	DSBGA	YZV	4	3000	220.0	220.0	35.0

DBV0005A



PACKAGE OUTLINE

SOT-23 - 1.45 mm max height

SMALL OUTLINE TRANSISTOR



4214839/K 08/2024

NOTES:

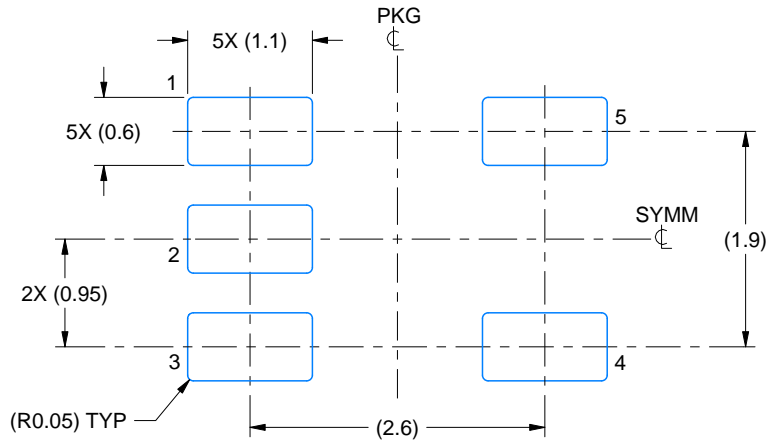
1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.
2. This drawing is subject to change without notice.
3. Reference JEDEC MO-178.
4. Body dimensions do not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0.25 mm per side.
5. Support pin may differ or may not be present.

EXAMPLE BOARD LAYOUT

DBV0005A

SOT-23 - 1.45 mm max height

SMALL OUTLINE TRANSISTOR



LAND PATTERN EXAMPLE
EXPOSED METAL SHOWN
SCALE:15X



SOLDER MASK DETAILS

4214839/K 08/2024

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.

EXAMPLE STENCIL DESIGN

DBV0005A

SOT-23 - 1.45 mm max height

SMALL OUTLINE TRANSISTOR



SOLDER PASTE EXAMPLE
BASED ON 0.125 mm THICK STENCIL
SCALE:15X

4214839/K 08/2024

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.

GENERIC PACKAGE VIEW

DRY 6

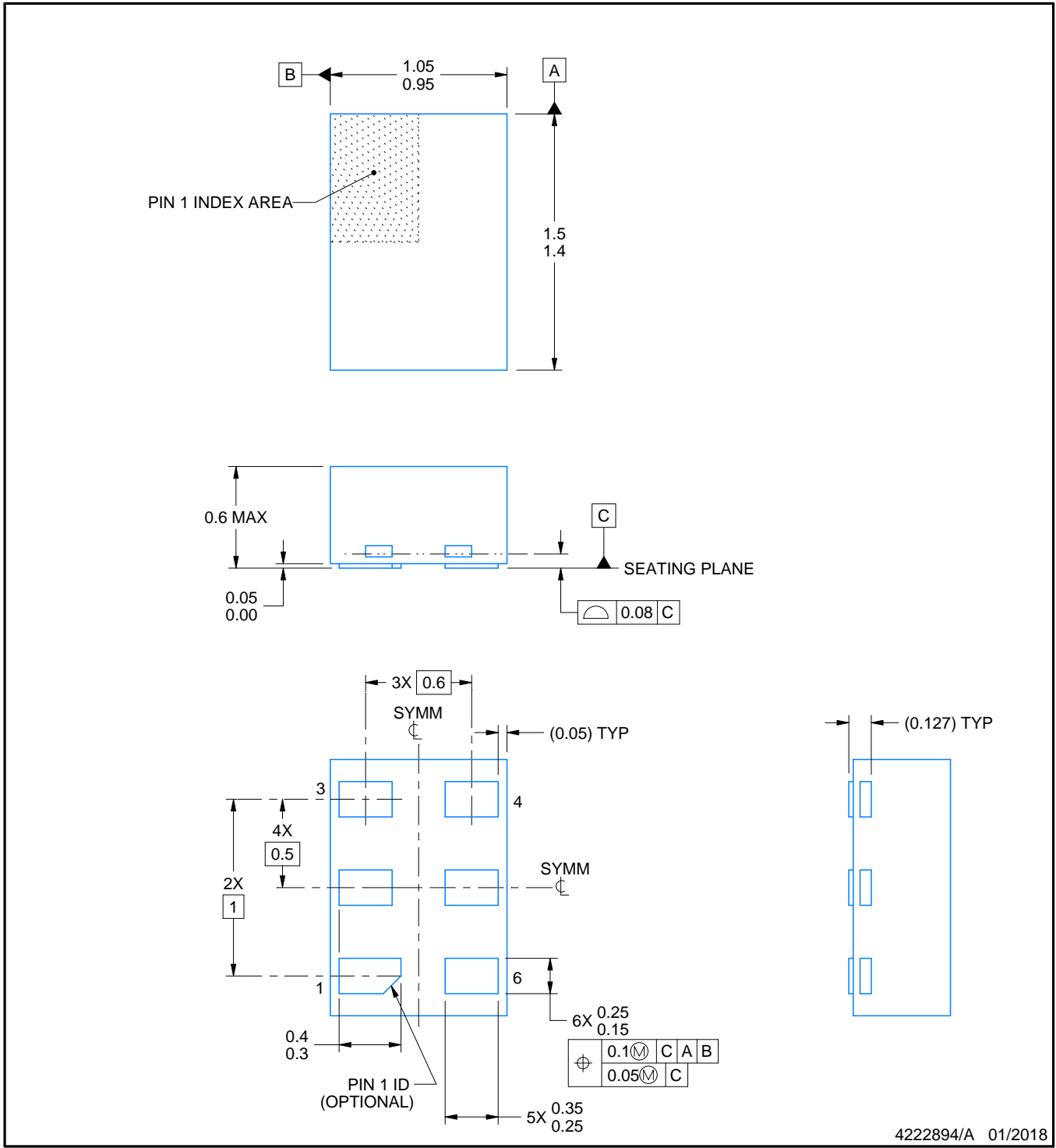
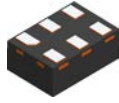
USON - 0.6 mm max height

PLASTIC SMALL OUTLINE - NO LEAD



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

4207181/G



4222894/A 01/2018

NOTES:

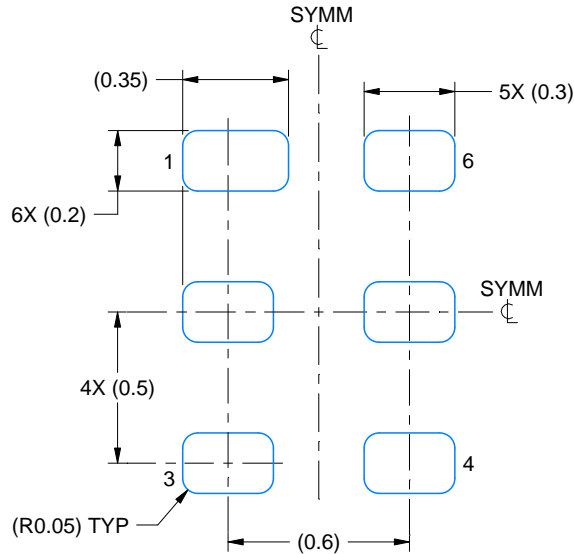
1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.
2. This drawing is subject to change without notice.

EXAMPLE BOARD LAYOUT

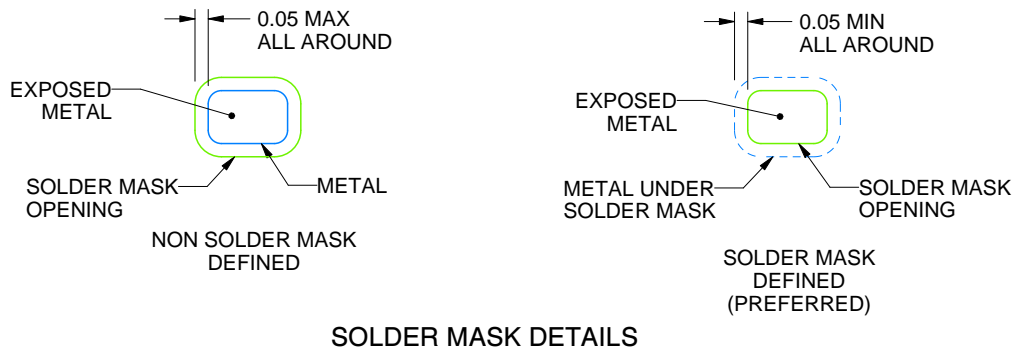
DRY0006A

USON - 0.6 mm max height

PLASTIC SMALL OUTLINE - NO LEAD



LAND PATTERN EXAMPLE
 1:1 RATIO WITH PKG SOLDER PADS
 EXPOSED METAL SHOWN
 SCALE:40X



SOLDER MASK DETAILS

4222894/A 01/2018

NOTES: (continued)

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

EXAMPLE STENCIL DESIGN

DRY0006A

USON - 0.6 mm max height

PLASTIC SMALL OUTLINE - NO LEAD



SOLDER PASTE EXAMPLE
BASED ON 0.075 - 0.1 mm THICK STENCIL
SCALE:40X

4222894/A 01/2018

NOTES: (continued)

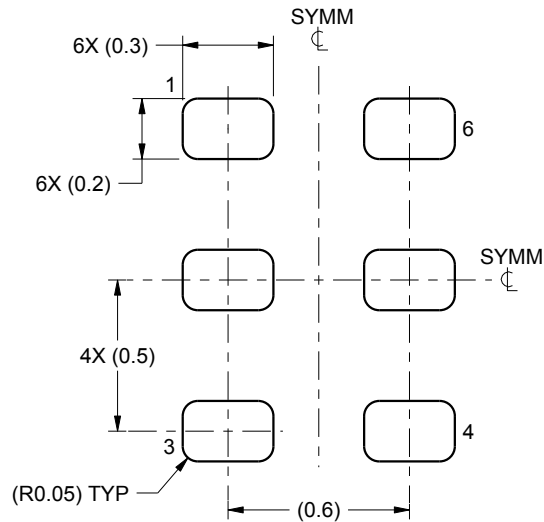
4. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.

EXAMPLE BOARD LAYOUT

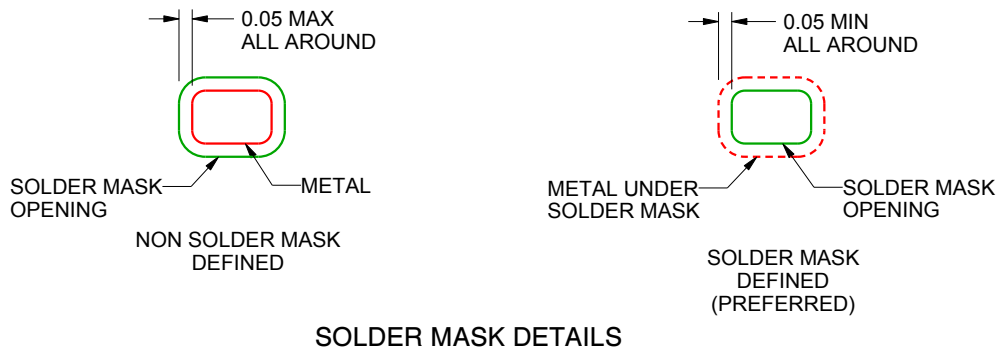
DRY0006B

USON - 0.55 mm max height

PLASTIC SMALL OUTLINE - NO LEAD



LAND PATTERN EXAMPLE
1:1 RATIO WITH PKG SOLDER PADS
SCALE:40X



SOLDER MASK DETAILS

4222207/B 02/2016

NOTES: (continued)

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

EXAMPLE STENCIL DESIGN

DRY0006B

USON - 0.55 mm max height

PLASTIC SMALL OUTLINE - NO LEAD



SOLDER PASTE EXAMPLE
BASED ON 0.075 - 0.1 mm THICK STENCIL
SCALE:40X

4222207/B 02/2016

NOTES: (continued)

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



DSF0006A

PACKAGE OUTLINE

X2SON - 0.4 mm max height

PLASTIC SMALL OUTLINE - NO LEAD



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.

EXAMPLE BOARD LAYOUT

DSF0006A

X2SON - 0.4 mm max height

PLASTIC SMALL OUTLINE - NO LEAD



LAND PATTERN EXAMPLE
EXPOSED METAL SHOWN
SCALE:40X



SOLDER MASK DETAILS

4220597/B 06/2022

NOTES: (continued)

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

EXAMPLE STENCIL DESIGN

DSF0006A

X2SON - 0.4 mm max height

PLASTIC SMALL OUTLINE - NO LEAD

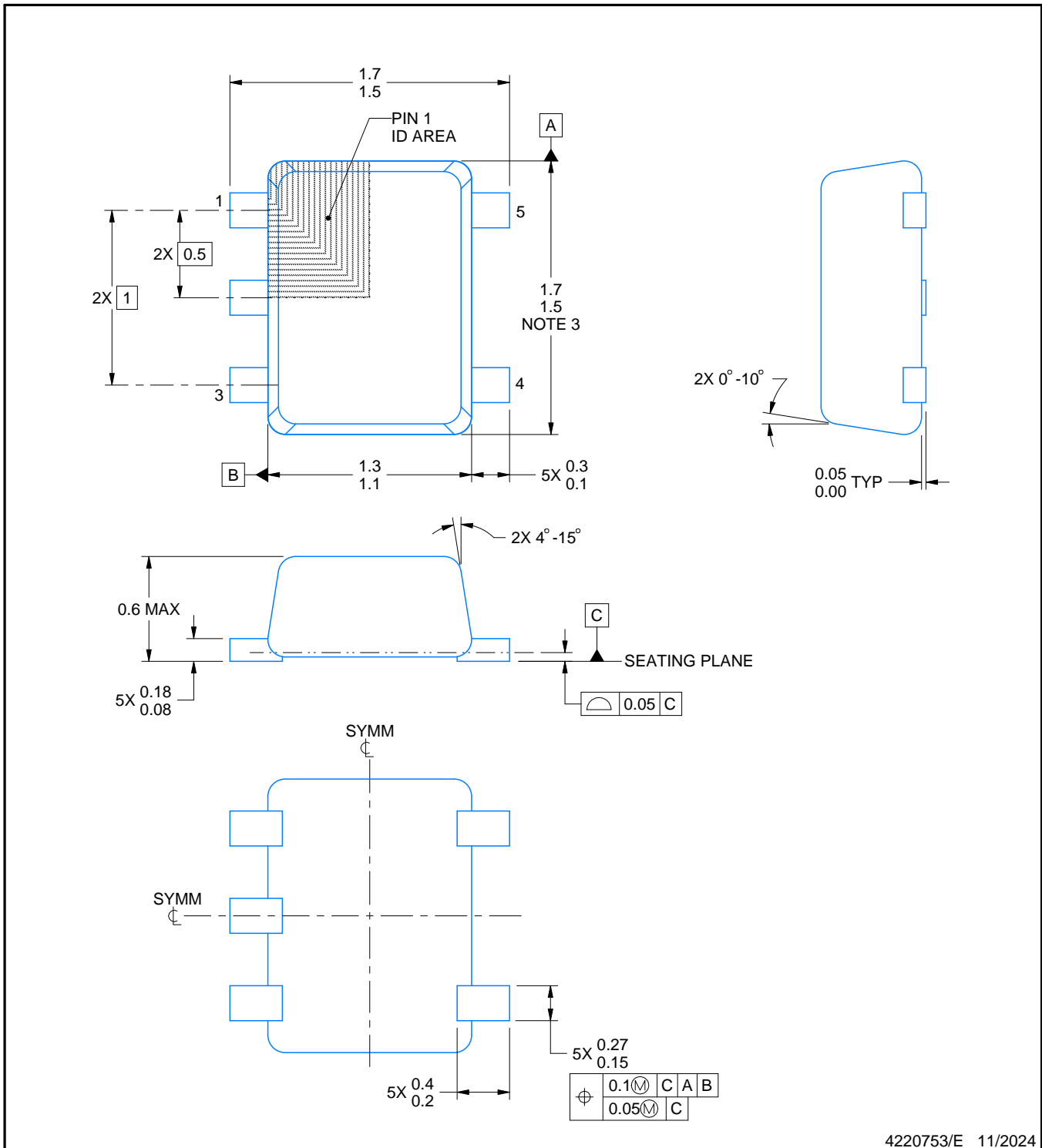


SOLDER PASTE EXAMPLE
BASED ON 0.09 mm THICK STENCIL

PRINTED SOLDER COVERAGE BY AREA UNDER PACKAGE
SCALE:40X

4220597/B 06/2022

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



4220753/E 11/2024

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. 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. Reference JEDEC registration MO-293 Variation UAAD-1

EXAMPLE BOARD LAYOUT

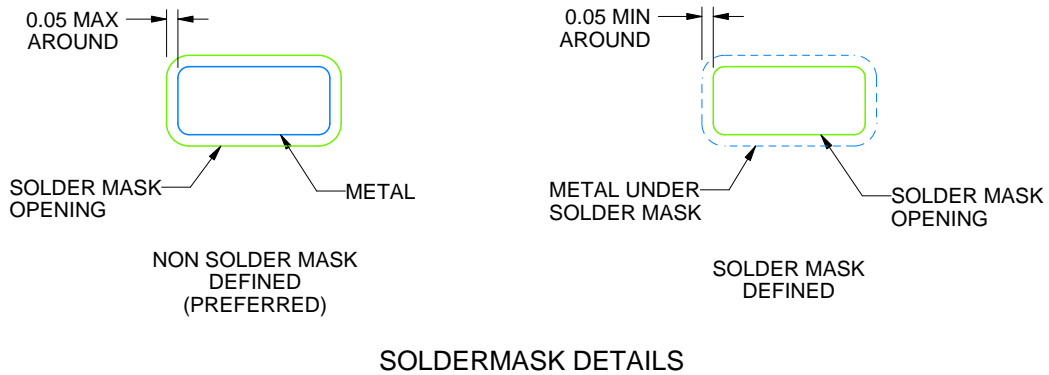
DRL0005A

SOT - 0.6 mm max height

PLASTIC SMALL OUTLINE



LAND PATTERN EXAMPLE
SCALE:30X



SOLDERMASK DETAILS

4220753/E 11/2024

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.

EXAMPLE STENCIL DESIGN

DRL0005A

SOT - 0.6 mm max height

PLASTIC SMALL OUTLINE



SOLDER PASTE EXAMPLE
BASED ON 0.1 mm THICK STENCIL
SCALE:30X

4220753/E 11/2024

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.

GENERIC PACKAGE VIEW

DPW 5

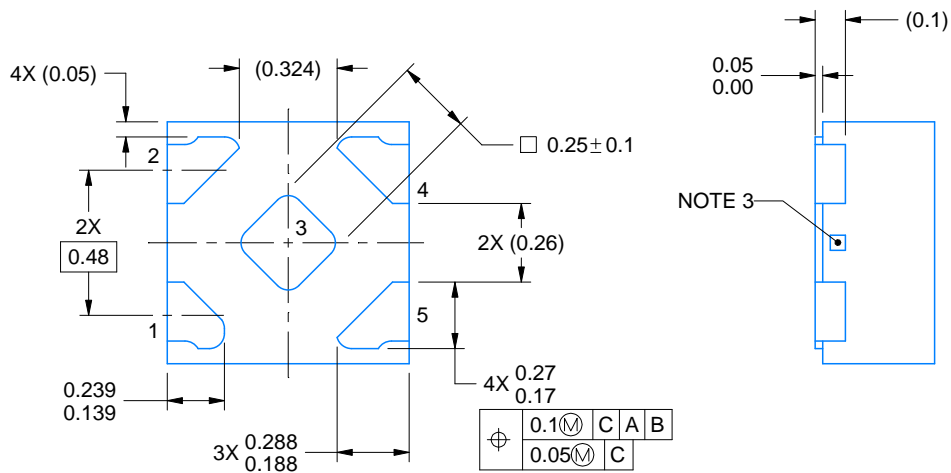
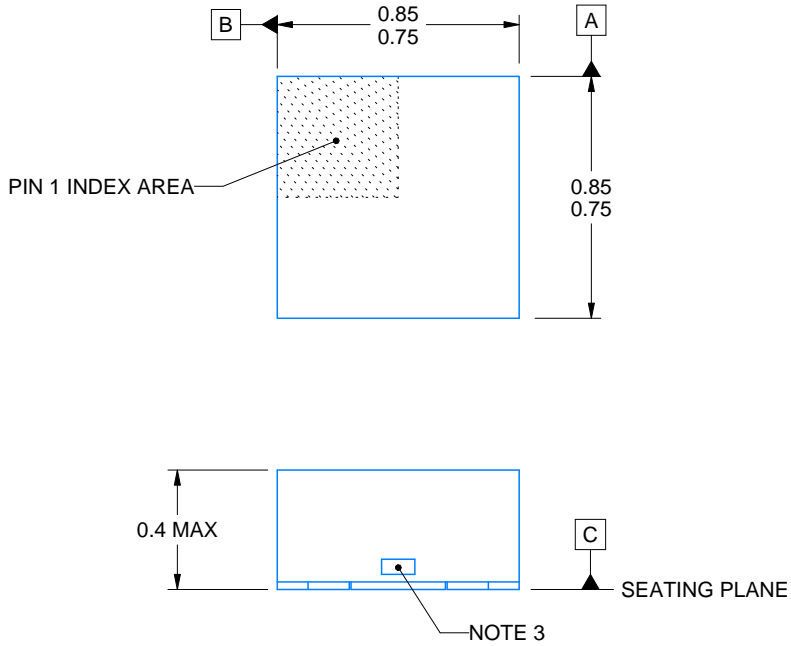
X2SON - 0.4 mm max height

PLASTIC SMALL OUTLINE - NO LEAD



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

4211218-3/D



4223102/D 03/2022

NOTES:

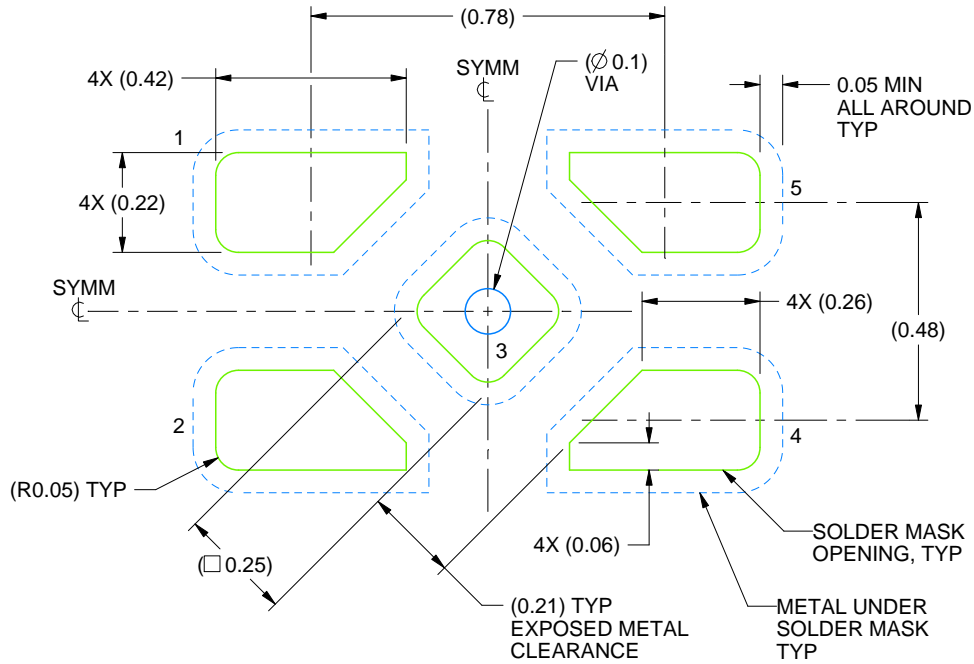
1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.
2. This drawing is subject to change without notice.
3. The size and shape of this feature may vary.

EXAMPLE BOARD LAYOUT

DPW0005A

X2SON - 0.4 mm max height

PLASTIC SMALL OUTLINE - NO LEAD



LAND PATTERN EXAMPLE
SOLDER MASK DEFINED
SCALE:60X

4223102/D 03/2022

NOTES: (continued)

4. This package is designed to be soldered to a thermal pad on the board. For more information, refer to QFN/SON PCB application note in literature No. SLUA271 (www.ti.com/lit/sl原因271).

EXAMPLE STENCIL DESIGN

DPW0005A

X2SON - 0.4 mm max height

PLASTIC SMALL OUTLINE - NO LEAD



SOLDER PASTE EXAMPLE
BASED ON 0.1 mm THICK STENCIL

EXPOSED PAD 3
92% PRINTED SOLDER COVERAGE BY AREA UNDER PACKAGE
SCALE:100X

4223102/D 03/2022

NOTES: (continued)

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

EXAMPLE BOARD LAYOUT

YZP0005

DSBGA - 0.5 mm max height

DIE SIZE BALL GRID ARRAY



LAND PATTERN EXAMPLE
SCALE:40X



SOLDER MASK DETAILS
NOT TO SCALE

4219492/A 05/2017

NOTES: (continued)

3. Final dimensions may vary due to manufacturing tolerance considerations and also routing constraints. For more information, see Texas Instruments literature number SNVA009 (www.ti.com/lit/snva009).

EXAMPLE STENCIL DESIGN

YZP0005

DSBGA - 0.5 mm max height

DIE SIZE BALL GRID ARRAY



SOLDER PASTE EXAMPLE
BASED ON 0.1 mm THICK STENCIL
SCALE:40X

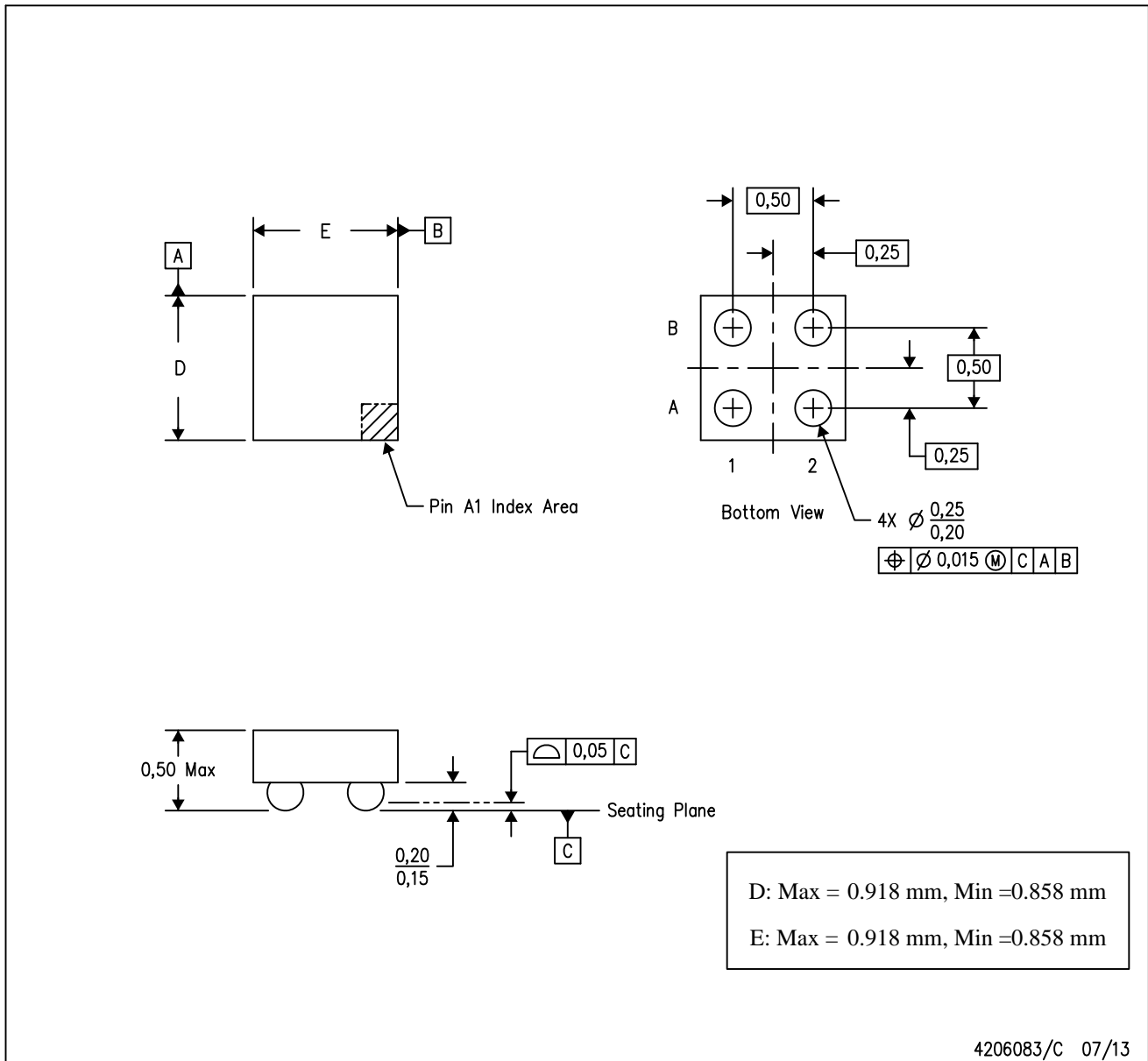
4219492/A 05/2017

NOTES: (continued)

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

YZV (S-XBGA-N4)

DIE-SIZE BALL GRID ARRAY



- NOTES:
- A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M-1994.
 - B. This drawing is subject to change without notice.
 - C. NanoFree™ package configuration.

NanoFree is a trademark of Texas Instruments.

EXAMPLE BOARD LAYOUT

DCK0005A

SOT - 1.1 max height

SMALL OUTLINE TRANSISTOR



LAND PATTERN EXAMPLE
EXPOSED METAL SHOWN
SCALE:18X



SOLDER MASK DETAILS

4214834/G 11/2024

NOTES: (continued)

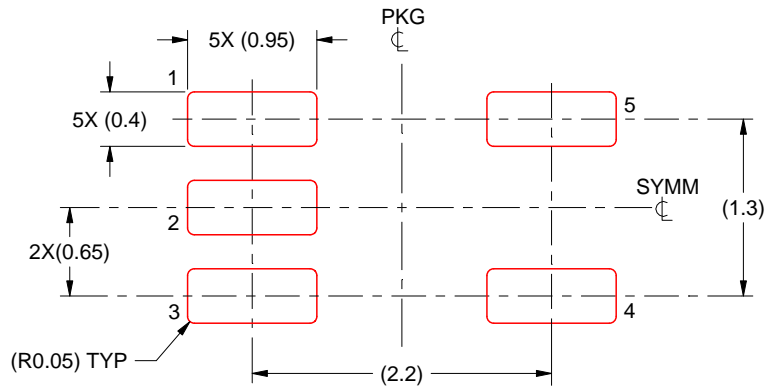
7. Publication IPC-7351 may have alternate designs.
8. Solder mask tolerances between and around signal pads can vary based on board fabrication site.

EXAMPLE STENCIL DESIGN

DCK0005A

SOT - 1.1 max height

SMALL OUTLINE TRANSISTOR



SOLDER PASTE EXAMPLE
BASED ON 0.125 THICK STENCIL
SCALE:18X

4214834/G 11/2024

NOTES: (continued)

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

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