











#### SN74CBTLV1G125-Q1

ZHCSJ80B -AUGUST 2009-REVISED JANUARY 2019

# SN74CBTLV1G125-Q1 低电压单路 FET 总线开关

#### 1 特性

- 符合面向汽车应用的 应用
  - 器件温度等级 1:-40°C 至 +125°C, T<sub>A</sub>
- 两个端口间使用 5Ω 开关连接
- 支持在数据 I/O 端口进行轨至轨开关
- Ioff 支持局部断电模式运行

# 2 应用

• 呼吸机

#### 3 说明

SN74CBTLV1G125 采用 单路高速线路开关。当输出 使能 (OE) 输入为高电平时,开关被禁用。

该器件完全 适用于 使用 I<sub>off</sub> 的局部断电应用。I<sub>off</sub> 特性确保在关断时防止损坏电流通过器件回流。该器件可在关断时提供隔离。

为了确保加电或断电期间的高阻抗状态, $\overline{OE}$  应通过一个上拉电阻器被连接至  $V_{CC}$ ; 该电阻器的最小值由驱动器的电流吸入能力来决定。

#### 器件信息(1)

订货编号	封装	封装尺寸
SN74CBTLV1G125-Q1	SOT-23 (DBV) (5)	2.90mm × 1.60mm

(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。

# 



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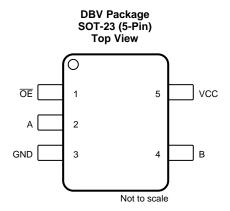
# 4 修订历史记录

注: 之前版本的页码可能与当前版本有所不同。

# Changes from Revision A (December 2018) to Revision BPage• 将特性从"符合汽车类 应用" 更改为"符合面向汽车 应用的 AEC-Q100"1• Changed the ESD Ratings table notes4• Changed the TA MAX value From: 85°C To 125°C in the Recommended Operating Conditions4Changes from Original (August 2009) to Revision APage• 添加了应用列表、器件信息表、ESD 额定值表、特性 说明 部分、器件功能模式、应用和实施 部分、电源建议 部分、布局部分、器件和文档支持 部分以及机械、封装和可订购信息 部分1



# **5 Pin Configuration and Functions**



#### **Pin Functions**

PIN		1/0	DESCRIPTION	
NAME	NO.	1/0	DESCRIPTION	
ŌĒ	1	I	Active low enable	
Α	2	I/O	Switch I/O	
GND	3	-	Ground	
В	4	I/O	Switch I/O	
V <sub>CC</sub>	5	-	Power Supply	



# 6 Specifications

#### 6.1 Absolute Maximum Ratings

over operating free-air temperature range (unless otherwise noted)(1)

			M	IN MAX	UNIT
$V_{CC}$	Supply voltage range		-(	).5 4.6	V
VI	Input voltage range (2)		-(	).5 4.6	V
	Continuous channel current			128	mA
I <sub>IK</sub>	Input clamp current	V <sub>I/O</sub> < 0		<b>-</b> 50	mA
T <sub>stg</sub>	Storage temperature range	•	_	65 150	°C

<sup>(1)</sup> 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.

#### 6.2 ESD Ratings

			VALUE	UNIT
M	Floatroctatio discharge	Human-body model (HBM), per AEC Q100-002 <sup>(1)</sup> HBM ESD Classification Level 2	±2000	V
V <sub>(ESD)</sub>	Electrostatic discharge	Charged-device model (CDM), per AEC Q100-011 CDM ESD Classification Level C5	±1000	V

<sup>(1)</sup> AEC Q100-002 indicates that HBM stressing shall be in accordance with the ANSI/ESDA/JEDEC JS-001 specification.

#### 6.3 Recommended Operating Conditions

over operating free-air temperature range (unless otherwise noted)(1)

			MIN	MAX	UNIT
V <sub>CC</sub>	Supply voltage		2.3	3.6	V
V High lavel control inner voltage		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	1.7		V
V <sub>IH</sub>	High-level control input voltage $V_{CC} = 2.7 \text{ V to } 3.6$	$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	2		<b>v</b>
.,	Low level control input voltage	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		0.7	V
V <sub>IL</sub>	Low-level control input voltage $V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$			8.0	V
T <sub>A</sub>	Operating free-air temperature		-40	125	°C

<sup>(1)</sup> All unused control inputs of the device must be held at V<sub>CC</sub> or GND to ensure proper device operation. Refer to the TI application report, *Implications of Slow or Floating CMOS Inputs*, literature number SCBA004.

#### 6.4 Thermal Information

		SN74CBTLV1G125-Q1	
	THERMAL METRIC <sup>(1)</sup>	SOT-23 (DBV)	UNIT
		5 PINS	
$R_{\theta JA}$	Junction-to-ambient thermal resistance	249.2	°C/W
$R_{\theta JC(top)}$	Junction-to-case (top) thermal resistance	174.2	°C/W
$R_{\theta JB}$	Junction-to-board thermal resistance	83.9	°C/W
ΨЈТ	Junction-to-top characterization parameter	67.3	°C/W
ΨЈВ	Junction-to-board characterization parameter	83.5	°C/W
$R_{\theta JC(bot)}$	Junction-to-case (bottom) thermal resistance	n/a	°C/W

For more information about traditional and new thermal metrics, see the Semiconductor and IC Package Thermal Metrics application report.

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



#### 6.5 Electrical Characteristics

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

PA	RAMETER	TEST CONDITIONS			MIN TYP(1)	MAX	UNIT
V <sub>IK</sub>		$V_{CC} = 3 \text{ V}, I_{I} = -18 \text{ mA}$				-1.2	V
II		$V_{CC} = 3.6 \text{ V}, V_{I} = V_{CC} \text{ or GND}$				±1	μА
		$V_{CC} = 0$ , $V_I$ or $V_O = 0$ to 3.6 V, $\overline{OE}$	= 3.6 V			15	۸
I <sub>off</sub>		$V_{CC} = 0$ , $V_I$ or $V_O = 0$ to 3.6 V, $\overline{OE}$	= 0 V			100	μΑ
I <sub>CC</sub>		$V_{CC} = 3.6 \text{ V}, V_I = V_{CC} \text{ or GND}$			10	μΑ	
$\Delta I_{CC}^{~(2)}$	Control inputs	$V_{CC}$ = 3.6 V, One input at 3 V, Other inputs at $V_{CC}$ or GND				300	μΑ
Ci	Control inputs	V <sub>I</sub> = 3 V or 0			2.5		pF
C <sub>io(OFF)</sub>		$V_O = 3 \text{ V or } 0, \overline{OE} = V_{CC}$			7		pF
			V <sub>1</sub> = 0	I <sub>I</sub> = 32 mA	7	10	
		$V_{CC} = 2.3 \text{ V},$ TYP at $V_{CC} = 2.5 \text{ V}$	$V_1 = 0$	I <sub>I</sub> = 24 mA	7	10	
r <sub>on</sub> (3)			$V_I = 1.7 V,$	$I_I = 15 \text{ mA}$	15	25	Ω
			$V_1 = 0$	$I_1 = 32 \text{ mA}$	5	7	77
		V <sub>CC</sub> = 3 V	v <sub>1</sub> = 0	$I_I = 24 \text{ mA}$	5	7	
			$V_1 = 2.4 V$ ,	I <sub>I</sub> = 15 mA	10	15	

## 6.6 Switching Characteristics

over recommended operating free-air temperature range (unless otherwise noted) (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V <sub>CC</sub> = 2.5 V ± 0.2 V		V <sub>CC</sub> = 3.3 V ± 0.3 V		UNIT
	(INFOT)	(001F01)	MIN	MAX	MIN	MAX	
t <sub>pd</sub> <sup>(1)</sup>	A or B	B or A		0.15		0.25	ns
t <sub>en</sub>	ŌĒ	A or B	0.5	8	0.5	7.5	ns
t <sub>dis</sub>	Œ	A or B	0.5	8	0.5	7.5	ns

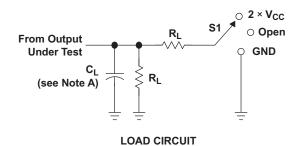
<sup>(1)</sup> The propagation delay is the calculated RC time constant of the typical on-state resistance of the switch and the specified load capacitance of 50 pF, when driven by an ideal voltage source (zero output impedance).

<sup>(1)</sup> All typical values are at  $V_{CC} = 3.3 \text{ V}$  (unless otherwise noted),  $T_A = 25^{\circ}\text{C}$ . (2) This is the increase in supply current for each input that is at the specified TTL voltage level, rather than  $V_{CC}$  or GND.

Measured by the voltage drop between A and B terminals at the indicated current through the switch. On-state resistance is determined by the lower of the voltages of the two (A or B) terminals.

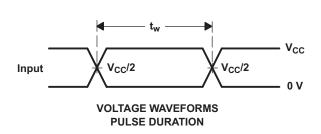


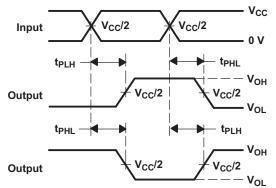
#### 7 Parameter Measurement Information



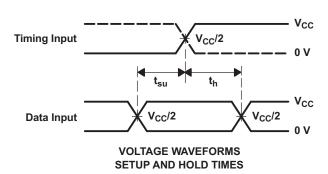
TEST	S1
t <sub>PLH</sub> /t <sub>PHL</sub>	Open
t <sub>PLZ</sub> /t <sub>PZL</sub>	2 × V <sub>CC</sub>
t <sub>PHZ</sub> /t <sub>PZH</sub>	GND

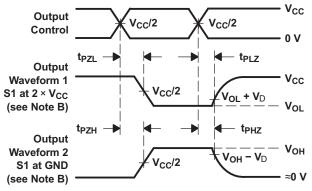
V <sub>CC</sub>	CL	R <sub>L</sub>	<b>V</b> D
2.5 V ±0.2 V	30 pF	500 W	0.15 V
3.3 V ±0.3 V	50 pF	500 W	0.3 V





VOLTAGE WAVEFORMS
PROPAGATION DELAY TIMES
INVERTING AND NONINVERTING OUTPUTS





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

- A. C<sub>L</sub> 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,  $Z_O = 50 \Omega$ ,  $t_f \leq$  2 ns.
- D. The outputs are measured one at a time, with one transition per measurement.
- E. t<sub>PLZ</sub> and t<sub>PHZ</sub> are the same as t<sub>dis</sub>.
- F. t<sub>PZL</sub> and t<sub>PZH</sub> are the same as t<sub>en</sub>.
- 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

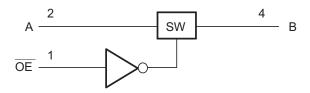


#### 8 Detailed Description

#### 8.1 Overview

The SN74CBTLV1G125 device is a 1-channel 1:1 high-speed FET switch. The low ON-state resistance of the switch allows connections to be made with minimal propagation delay. The  $(\overline{OE})$  pin is an active low logic control pin that controls the data flow. The FET is disabled when the output-enable  $(\overline{OE})$  input is high. This device is fully specified for partial-power-down applications using  $I_{off}$ . The  $I_{off}$  feature ensures that damaging current will not backflow through the device when it is powered down. The device has isolation during power off. To ensure the high-impedance state during power up or power down, OE should be tied to VCC through a pullup resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver.

#### 8.2 Functional Block Diagram



## 8.3 Feature Description

The SN74CBTLV1G125 features  $5-\Omega$  switch connection between ports, allowing for low signal loss across the switch. Rail-to-rail switching on data I/O allows for full voltage swing outputs. I<sub>off</sub> supports partial-power-down mode operation, protecting the chip from voltages at output ports when it is not powered on.

#### 8.4 Device Functional Modes

Table 1 shows the functional modes of SN74CBTLV1G125.

**Table 1. Function Table** 

INPUT OE	FUNCTION				
L	A port = B port				
Н	Disconnect				



# 9 Application and Implementation

#### NOTE

Information in the following applications sections is not part of the TI component specification, and TI does not warrant its accuracy or completeness. TI's customers are responsible for determining suitability of components for their purposes. Customers should validate and test their design implementation to confirm system functionality.

#### 9.1 Application Information

The SN74CBTLV1G125 can be used to switch a signal path. The switch is bidirectional, so the A and B pins can be used as either inputs or outputs. This switch is typically used when there is one signal path that needs to be isolated at certain times.

#### 9.2 Typical Application

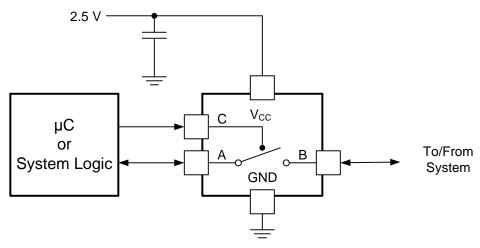


Figure 2. Typical Application

#### 9.2.1 Design Requirements

The SN74CBTLV1G125 device can be properly operated without any external components. TI recommends pulling up the digital control pin (OE) to VCC or pulling down to GND to avoid undesired switch positions that could result from the floating pin. A floating digital pin could cause excess current consumption refer to Implications of Slow or Floating CMOS Inputs.

#### 9.2.2 Detailed Design Procedure

When  $\overline{OE}$  is high, the active bus. This means that there is a low impedance path between the A and B pins. The 0.1- $\mu$ F capacitor on VCC is a decoupling capacitor and should be placed as close as possible to the device.



# 10 Power Supply Recommendations

The power supply can be any voltage between the minimum and maximum supply voltage rating listed in the Recommended Operating Conditions table. Each VCC terminal should have a good bypass capacitor to prevent power disturbance. For devices with a single supply, a 0.1- $\mu$ F bypass capacitor is recommended. If multiple pins are labeled VCC, then a 0.01- $\mu$ F or 0.022- $\mu$ F capacitor is recommended for each VCC because the VCC pins are tied together internally. For devices with dual supply pins operating at different voltages, for example VCC and VDD, a 0.1- $\mu$ F bypass capacitor is recommended for each supply pin. To reject different frequencies of noise, use multiple bypass capacitors in parallel. Capacitors with values of 0.1  $\mu$ F and 1  $\mu$ F are commonly used in parallel. The bypass capacitor should be installed as close to the power terminal as possible for best results.

## 11 Layout

## 11.1 Layout Guidelines

Reflections and matching are closely related to the loop antenna theory but are different enough to be discussed separately from the theory. When a PCB trace turns a corner at a 90° angle, a reflection can occur. A reflection occurs primarily because of the change of width of the trace. At the apex of the turn, the trace width increases to 1.414 times the width. This increase upsets the transmission-line characteristics, especially the distributed capacitance and self–inductance of the trace which results in the reflection. Not all PCB traces can be straight, and therefore; some traces must turn corners. Figure 3 shows progressively better techniques of rounding corners. Only the last example (BEST) maintains constant trace width and minimizes reflections.

#### 11.2 Layout Example

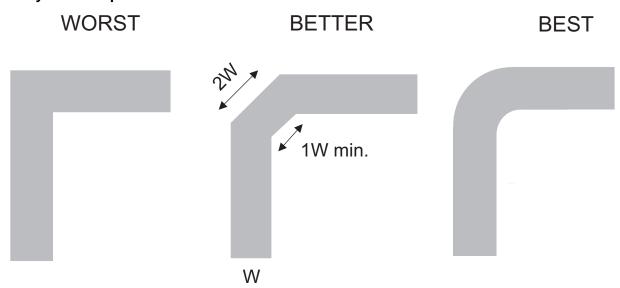


Figure 3. Example Layout



#### 12 器件和文档支持

#### 12.1 器件支持

#### 12.2 接收文档更新通知

要接收文档更新通知,请导航至 Tl.com.cn 上的器件产品文件夹。单击右上角的通知我进行注册,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。

#### 12.3 社区资源

下列链接提供到 TI 社区资源的连接。链接的内容由各个分销商"按照原样"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》。

TI E2E™ 在线社区 TI 的工程师对工程师 (E2E) 社区。此社区的创建目的在于促进工程师之间的协作。在 e2e.ti.com 中,您可以咨询问题、分享知识、拓展思路并与同行工程师一道帮助解决问题。

设计支持 71 参考设计支持 可帮助您快速查找有帮助的 E2E 论坛、设计支持工具以及技术支持的联系信息。

#### 12.4 商标

E2E is a trademark of Texas Instruments.

#### 12.5 静电放电警告



ESD 可能会损坏该集成电路。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措施和安装程序,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。

#### 12.6 术语表

SLYZ022 — TI 术语表。

这份术语表列出并解释术语、缩写和定义。

#### 13 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的最新可用数据。数据如有变更,恕不另行通知,且不会对此文档进行修订。如需获取此数据表的浏览器版本,请查阅左侧的导航栏。

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#### PACKAGING INFORMATION

Orderable part number	Status	Material type	Package   Pins	Package qty   Carrier	<b>RoHS</b> (3)	Lead finish/ Ball material	MSL rating/ Peak reflow	Op temp (°C)	Part marking (6)
74CBTLV1G125DBVRQ1	Active	Production	SOT-23 (DBV)   5	3000   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	VCTO
74CBTLV1G125DBVRQ1.A	Active	Production	SOT-23 (DBV)   5	3000   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	VCTO
74CBTLV1G125DBVRQ1.B	Active	Production	SOT-23 (DBV)   5	3000   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 125	VCTO

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

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.

In no event shall TI's liability arising out of such information exceed the total purchase price of the TI part(s) at issue in this document sold by TI to Customer on an annual basis.

#### OTHER QUALIFIED VERSIONS OF SN74CBTLV1G125-Q1:

Catalog: SN74CBTLV1G125

<sup>(2)</sup> 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.

<sup>(3)</sup> RoHS values: Yes, No, RoHS Exempt. See the TI RoHS Statement for additional information and value definition.

<sup>(4)</sup> 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.

<sup>(5)</sup> 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.

<sup>(6)</sup> 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.



# **PACKAGE OPTION ADDENDUM**

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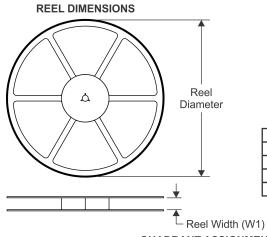
NOTE: Qualified Version Definitions:

 $_{\bullet}$  Catalog - TI's standard catalog product

# **PACKAGE MATERIALS INFORMATION**

www.ti.com 5-Jan-2021

# 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

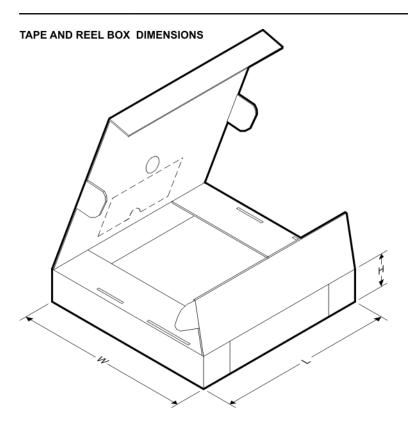


#### \*All dimensions are nominal

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
74CBTLV1G125DBVRQ1	SOT-23	DBV	5	3000	179.0	8.4	3.2	3.2	1.4	4.0	8.0	Q3

**PACKAGE MATERIALS INFORMATION** 

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#### \*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
74CBTLV1G125DBVRQ1	SOT-23	DBV	5	3000	200.0	183.0	25.0



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. 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.



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.



# 重要通知和免责声明

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