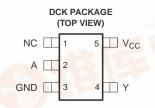
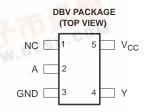
## SINGLE SCHMITT-TRIGGER BUFFER

#### **FEATURES**

- Controlled Baseline
  - One Assembly/Test Site, One Fabrication Site
- Extended Temperature Performance of -55°C to 125°C
- Enhanced Diminishing Manufacturing Sources (DMS) Support
- Qualification Pedigree<sup>(1)</sup>
- Supports 5-V V<sub>CC</sub> Operation
- Max tpd of 4.6 ns at 3.3 V
- Low Power Consumption, 10 μA Max I<sub>CC</sub>
- ±24 mA Output Drive at 3.3 V
- I<sub>off</sub> Supports Partial Power Down Mode Operation
- 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)
- (1) Component qualification in accordance with JEDEC and industry standards to ensure reliable operation over an extended temperature range. This includes, but is not limited to, Highly Accelerated Stress Test (HAST) or biased 85/85, temperature cycle, autoclave or unbiased HAST, electromigration, bond intermetallic life, and mold compound life. Such qualification testing should not be viewed as justifying use of this component beyond specified performance and environmental limits.





### DESCRIPTION/ORDERING INFORMATION

This single Schmitt-trigger buffer is designed for 1.65-V to 5.5-V V<sub>CC</sub> operation.

The SN74LVC1G17 contains one buffer and performs the Boolean function Y = A. The device functions as an independent buffer, but because of Schmitt action, it may have different input threshold levels for positive-going  $(V_{T+})$  and negative-going  $(V_{T-})$  signals.

NanoStar<sup>™</sup> and NanoFree<sup>™</sup> 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 loff. The loff circuitry disables the outputs, preventing damaging current backflow through the device when it is powered down.

### ORDERING INFORMATION(1)

TA	PACKAGI	E <sup>(2)</sup>	ORDERABLE PART NUMBER	TOP-SIDE MARKING
–55°C to 125°C	SOT (SC-70) - DCK	Reel of 3000	SN74LVC1G17MDCKREP	C70
-55 C to 125°C	SOP (SOT-23) - DBV	Reel of 3000	SN74LVC1G17MDBVREP	C170

- (1) For the most current package and ordering information, see the Package Option Addendum at the end of this document, or see the TI website at www.ti.com.
- (2) Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.

#### **FUNCTION TABLE**

INPUT A	OUTPUT Y
B) Ho.co	Н
WWW.W.	L

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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## **LOGIC DIAGARAM (POSITIVE LOGIC)**



#### **ABSOLUTE MAXIMUM RATINGS**

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

		VALUE	UNIT
$V_{CC}$	Supply voltage range	-0.5 to 6.5	V
VI	Input voltage range (2)	-0.5 to 6.5	V
.,	Voltage range applied to any output in the high-impedance or power-off state	-0.5 to 6.5	V
Vo	Voltage range applied to any output in the high or low state (2) (3)	-0.5 to V <sub>CC</sub> + 0.5	V
I <sub>IK</sub>	Input clamp current (V <sub>I</sub> < 0)	-50	mA
I <sub>OK</sub>	Output clamp current (V <sub>O</sub> < 0)	-50	mA
Io	Continuous output current	±50	mA
	Continuous current through V <sub>CC</sub> or GND	±100	mA
$\theta_{JA}$	Package thermal impedance <sup>(4)</sup> : DCK package	252	°C/W
T <sub>stg</sub>	Storage temperature range	-65 to 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.

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

(3) The value of V<sub>CC</sub> 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)

			MAX	MAX	UNIT
.,	Complement	Operating	1.65	5.5	V
V <sub>CC</sub>	Supply voltage	Data retention only	1.5		V
VI	Input voltage		0	5.5	V
Vo	Output voltage		0	V <sub>CC</sub>	V
		V <sub>CC</sub> = 1.65 V		-4	
	o <sub>H</sub> High	V <sub>CC</sub> = 2.3 V		-8	
I <sub>OH</sub>		V <sub>CC</sub> = 3 V		-16	mA
		V <sub>CC</sub> = 3 V		-24	
		V <sub>CC</sub> = 4.5 V		-32	
		V <sub>CC</sub> = 1.65 V		4	
		$V_{CC} = 2.3 \text{ V}$		8	
I <sub>OL</sub>	Low-level output current	V <sub>CC</sub> = 3 V	16		mA
		V <sub>CC</sub> = 3 V		24	
		$V_{CC} = 4.5 \text{ V}$		32	
T <sub>A</sub>	Operating free-air temperature		-55	125	°C

<sup>(1)</sup> All unused inputs of the device must be held at  $V_{CC}$  or GND to ensure proper device operation. See the TI application report, Implications of Slow or Floating CMOS Inputs (SCBA004).

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## **ELECTRICAL CHARACTERISTICS**

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

	PARAMETER	TEST CONDITIONS	V <sub>CC</sub>	MIN TYP <sup>(1)</sup>	MAX	UNIT
			1.65 V to 4.5 V	0.76	1.13	
			2.3 V	1.08	1.56	
$V_{T+}$	Positive-going input threshold voltage		3 V	1.48	1.92	V
	unconoid voltage		4.5 V	2.19	2.74	
			5.5 V	2.65	3.33	
			1.65 V to 4.5 V	0.35	0.59	
	Negative-going		2.3 V	0.56	0.88	
$V_{T-}$	input threshold		3 V	0.89	1.2	V
	voltage		4.5 V	1.51	1.97	
			5.5 V	1.88	2.4	
&Delt			1.65 V to 4.5 V	0.36	0.64	
a;V <s< td=""><td></td><td></td><td>2.3 V</td><td>0.45</td><td>0.78</td><td></td></s<>			2.3 V	0.45	0.78	
ubscri	Hysteresis		3 V	0.51	0.83	V
Subsc	ot>T (V<sub T+ – V <sub>T</sub> ) Subsc		4.5 V	0.58	0.93	
ript>			5.5 V	0.69	1.04	
		I <sub>OH</sub> = -100 mA	1.65 V to 4.5 V	V <sub>CC</sub> - 0.1		
		I <sub>OH</sub> = -4 mA	1.65 V	1.2		
1/		$I_{OH} = -8 \text{ mA}$	2.3 V	1.9		V
V <sub>OH</sub>		I <sub>OH</sub> = -16 mA	3 V	2.4		V
		$I_{OH} = -24 \text{ mA}$	3 V	2.3		
		$I_{OH} = -32 \text{ mA}$	4.5 V	3.8		
		I <sub>OL</sub> = 100 mA	1.65 V to 4.5 V		0.1	
		I <sub>OL</sub> = 4 mA	1.65 V		0.45	
\/		I <sub>OL</sub> = 8 mA	2.3 V		0.3	V
V <sub>OL</sub>		I <sub>OL</sub> = 16 mA	3 V		0.4	V
		I <sub>OL</sub> = 24 mA	3 V		0.55	
		I <sub>OL</sub> = 32 mA	4.5 V		0.55	
I	A input	$V_I = 5.5$ or GND	0 to 5.5 V		±5	μΑ
I <sub>off</sub>		$V_I$ or $V_O = 5.5 \text{ V}$	0		±10	μΑ
I <sub>CC</sub>		$V_I = 5.5 \text{ V or GND}, I_O = 0$	1.65 V to 5.5 V		10	μΑ
$\Delta I_{CC}$		One input at $V_{CC}$ – 0.6 V, Other inputs at $V_{CC}$ or GND	3 V to 5.5 V		500	μΑ
Ci		$V_I = V_{CC}$ or GND	3.3 V	4.5		pF

<sup>(1)</sup> All typical values are at  $V_{CC}$  = 3.3 V,  $T_A$  = 25°C.



## **SWITCHING CHARACTERISTICS**

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

PARAMETER	PARAMETER FROM TO (INPUT) (OUTPUT)		V <sub>CC</sub> = 1.8 V ±0.15 V		V <sub>CC</sub> = 2.5 V ±0.2 V		V <sub>CC</sub> = 3.3 V ±0.3 V		V <sub>CC</sub> = 5 V ±0.5 V		UNIT
(In	(INPOT)	(001701)	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t <sub>pd</sub>	Α	Υ	2.8	9.9	1.6	5.5	1.5	4.6	0.9	4.4	ns

#### **SWITCHING CHARACTERISTICS**

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

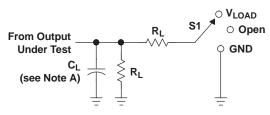
PARAMETER	PARAMETER FROM (INPUT)	TO (OUTPUT)	V <sub>CC</sub> = ±0.1		V <sub>CC</sub> = ±0.	2.5 V 2 V	V <sub>CC</sub> = ±0.		V <sub>CC</sub> =		UNIT
			MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t <sub>pd</sub>	Α	Υ	3.8	11	2	6.5	1.8	5.5	1.2	5	ns

## **OPERATING CHARACTERISTICS,**

 $T_A = 25^{\circ}C$ 

PARAMETER		TEST CONDITIONS	V <sub>CC</sub> = 1.8 V	V <sub>CC</sub> = 2.5 V	V <sub>CC</sub> = 3.3 V	V <sub>CC</sub> = 5 V	UNIT
	FARAWETER	TEST CONDITIONS	TYP	TYP	TYP	TYP	ONII
$C_{pd}$	Power dissipaton capacitance	f = 10 MHz	20	21	22	26	

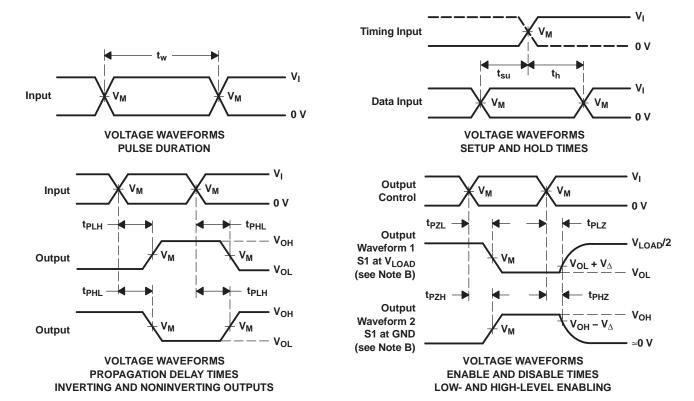
### PARAMETER MEASUREMENT INFORMATION



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

**LOAD CIRCUIT** 

.,	INI	PUTS	V <sub>M</sub> V <sub>LOAD</sub>			_	.,
V <sub>CC</sub>	VI	t <sub>r</sub> /t <sub>f</sub>	V <sub>M</sub>	VLOAD	CL	R <sub>L</sub>	$V_{\!\scriptscriptstyle \Delta}$
1.8 V $\pm$ 0.15 V	V <sub>CC</sub>	≤ <b>2</b> ns	V <sub>CC</sub> /2	2×V <sub>CC</sub>	15 pF	<b>1 M</b> Ω	0.15 V
2.5 V $\pm$ 0.2 V	V <sub>CC</sub>	≤2 ns	V <sub>CC</sub> /2	2×V <sub>CC</sub>	15 pF	<b>1 M</b> Ω	0.15 V
3.3 V $\pm$ 0.3 V	3 V	≤2.5 ns	1.5 V	6 V	15 pF	1 MΩ	0.3 V
5 V $\pm$ 0.5 V	V <sub>CC</sub>	≤2.5 ns	V <sub>CC</sub> /2	2×V <sub>CC</sub>	15 pF	<b>1 M</b> Ω	0.3 V

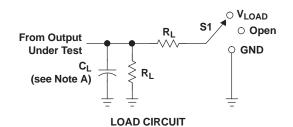


- NOTES: A.  $C_L$  includes probe and jig capacitance.
  - B. Waveform 1 is for an output with internal conditions such that the output is low, except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high, except when disabled by the output control.
  - C. All input pulses are supplied by generators having the following characteristics: PRR  $\leq$  10 MHz, Z<sub>O</sub> = 50  $\Omega$ .
  - 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<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



## PARAMETER MEASUREMENT INFORMATION (continued)



5 V  $\pm$  0.5 V

 $V_{CC}$ 

≤2.5 ns

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

V	INF	PUTS	V	V	•	_	V
V <sub>CC</sub>	VI	t <sub>r</sub> /t <sub>f</sub>	V <sub>M</sub>	V <sub>LOAD</sub>	CL	R <sub>L</sub>	$V_{\!\scriptscriptstyle \Delta}$
1.8 V $\pm$ 0.15 V	V <sub>CC</sub>	≤2 ns	V <sub>CC</sub> /2	2×V <sub>CC</sub>	30 pF	<b>1 k</b> Ω	0.15 V
2.5 V $\pm$ 0.2 V	V <sub>CC</sub>	≤2 ns	V <sub>CC</sub> /2	2×V <sub>CC</sub>	30 pF	500 Ω	0.15 V
3.3 V $\pm$ 0.3 V	3 V	≤2.5 ns	1.5 V	6 V	50 pF	500 Ω	0.3 V

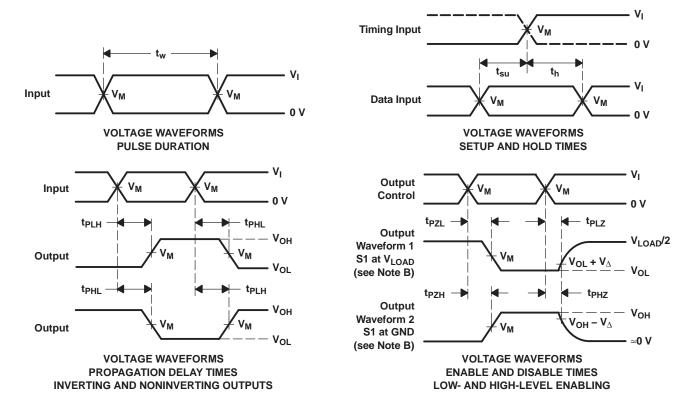
 $2\times V_{CC}$ 

50 pF

500  $\Omega$ 

0.3 V

V<sub>CC</sub>/2



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,  $Z_O = 50~\Omega$ .
- 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<sub>PZL</sub> and t<sub>PZH</sub> are the same as t<sub>en</sub>.
- G. t<sub>PLH</sub> and t<sub>PHL</sub> are the same as t<sub>pd</sub>.
- H. All parameters and waveforms are not applicable to all devices.

Figure 2. Load Circuit and Voltage Waveforms



## PACKA

#### PACKAGING INFORMATION

Orderable Device	Status <sup>(1)</sup>	Package Type	Package Drawing	Pins	Package Qty	Eco Plan <sup>(2)</sup>	Lead/ Ball Finish	MSL Pe
CLVC1G17MDCKREPG4	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260
SN74LVC1G17MDBVREP	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260
SN74LVC1G17MDCKREP	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260
V62/06621-01XE	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260
V62/06621-01YE	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260

<sup>&</sup>lt;sup>(1)</sup> 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

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.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 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 **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, 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 retard 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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## **PACKA**

### OTHER QUALIFIED VERSIONS OF SN74LVC1G17-EP:

◆ Catalog: SN74LVC1G17

• Automotive: SN74LVC1G17-Q1

NOTE: Qualified Version Definitions:

- Catalog TI's standard catalog product
- Automotive Q100 devices qualified for high-reliability automotive applications targeting zero defects

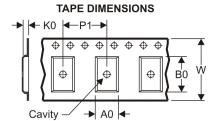


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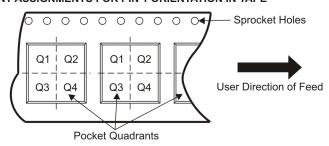
## TAPE AND REEL INFORMATION





A0	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

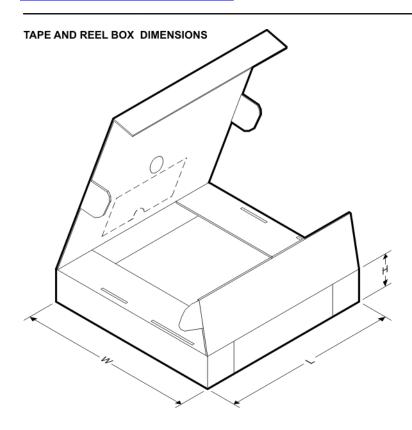
Device	Package Type	Package Drawing			Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74LVC1G17MDBVREP	SOT-23	DBV	5	3000	179.0	8.4	3.2	3.2	1.4	4.0	8.0	Q3
SN74LVC1G17MDCKREP	SC70	DCK	5	3000	179.0	8.4	2.2	2.5	1.2	4.0	8.0	Q3





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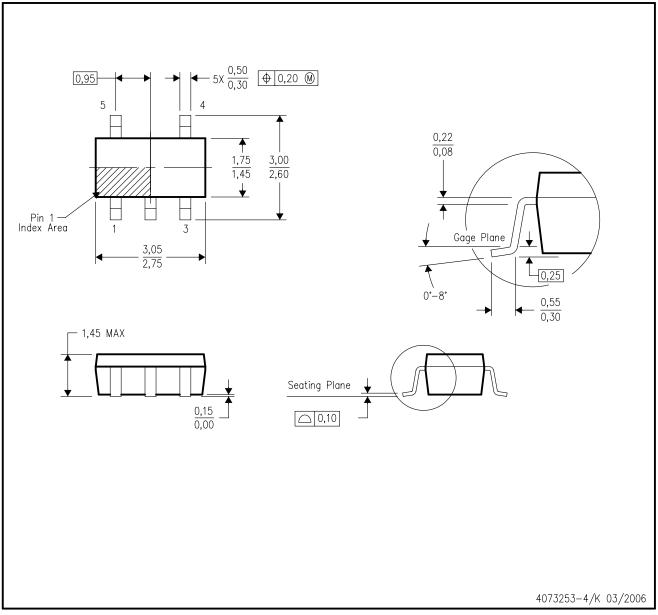


#### \*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74LVC1G17MDBVREP	SOT-23	DBV	5	3000	203.0	203.0	35.0
SN74LVC1G17MDCKREP	SC70	DCK	5	3000	203.0	203.0	35.0

## DBV (R-PDSO-G5)

## PLASTIC SMALL-OUTLINE PACKAGE



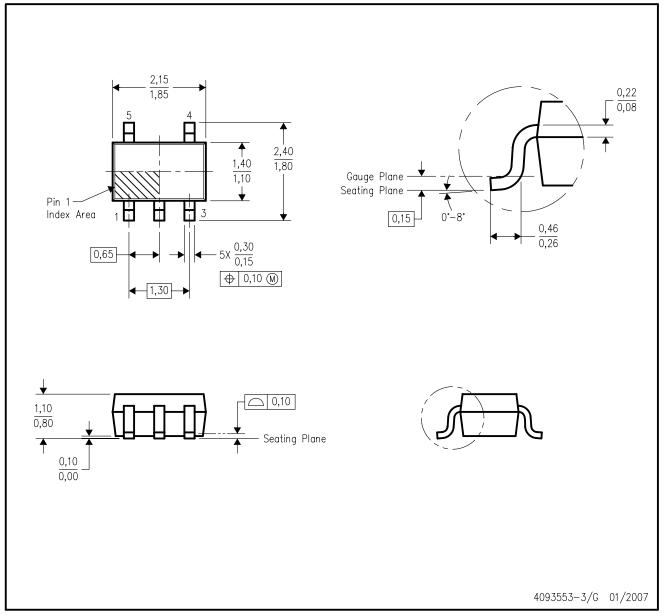
NOTES:

- 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-178 Variation AA.



# DCK (R-PDSO-G5)

## 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 AA.



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