TEXAS INSTRUMENTS

查询 "\$\\ 7400 C1G00-EP"供应商

FEATURES

Controlled Baseline

- One Assembly/Test Site, One Fabrication Site

- Enhanced Diminishing Manufacturing Sources (DMS) Support
- Enhanced Product-Change Notification
- Qualification Pedigree (1)
- Supports 5-V V_{CC} Operation
- Inputs Accept Voltages to 5.5 V
- Max t_{pd} of 3.8 ns at 3.3 V
- Low Power Consumption, 10-μA Max I_{cc}
- ±24-mA Output Drive at 3.3 V
- (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 2-input positive-NAND gate is designed for 1.65-V to 5.5-V V_{CC} operation.

The SN74LVC1G00 performs the Boolean function $Y = \overline{A \cdot B}$ or $Y = \overline{A} + \overline{B}$ in positive logic.

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

ORDERING INFORMATION

T _A	PACKAGE ⁽¹⁾			TOP-SIDE MARKING ⁽²⁾	
–40°C to 85°C	SOP (SC-70) – DCK Reel of 3000		SN74LVC1G00IDCKREP	CAO	
–55°C to 125°C	SOP – DBV	Reel of 3000	SN74LVC1G00MDBVREP	SBFM	
-55 C 10 125 C	SOP (SC-70) – DCK	Reel of 3000	SN74LVC1G00MDCKREP	BYA	

(1) Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.

(2) The actual top-side marking has one additional character that designates the assembly/test site.

INP	UTS	OUTPUT
Α	В	Y
Н	Н	L
L	Х	H H
Х	L	Н

FUNCTION TABLE

LOGIC DIAGRAM (POSITIVE LOGIC)

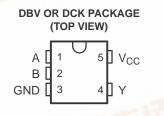


Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

A

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- I_{off} 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)



SN74LVC1G00-EP SINGLE 2-INPUT POSITIVE-NAND GATE

SCESTON DECEMBER 2007 REVISED TENBER 2006

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 high-impedance or power-off state ⁽²⁾		-0.5	6.5	V
Vo	Voltage range applied to any output in the high or low state ⁽²⁾⁽³⁾		-0.5	V _{CC} + 0.5	V
I _{IK}	Input clamp current	V ₁ < 0		-50	mA
I _{OK}	Output clamp current V _O < 0			-50	mA
I _O	Continuous output current			±50	mA
	Continuous current through V_{CC} or GND			±100	mA
0	Decline the second instruction of (4)	DBV package		324.1	0000
θ_{JA}	Package thermal impedance ⁽⁴⁾	DCK package		252	°C/W
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.

(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_{CC} is provided in the recommended operating conditions table.

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

SCES450D-DECEMBER 2003-REVISED SEPTEMBER 2006

Recommended Operating Conditions⁽¹⁾

				MIN	MAX	UNIT
V	Supply voltogo	Operating		1.65	5.5	V
V _{CC}	Supply voltage	Data retention only		1.5		v
		V _{CC} = 1.65 V to 1.95	$0.65 imes V_{CC}$			
V	High-level input voltage	$V_{\rm CC}$ = 2.3 V to 2.7 V	1.7		V	
VIH	High-level linput voltage	V_{CC} = 3 V to 3.6 V	2		v	
		V_{CC} = 4.5 V to 5.5 V	$0.7 imes V_{CC}$			
		V_{CC} = 1.65 V to 1.95	V		$0.35 \times V_{CC}$	
V _{IL}	Low-level input voltage	$V_{\rm CC}$ = 2.3 V to 2.7 V			0.7	V
۷IL	Low-level input voltage	V_{CC} = 3 V to 3.6 V		0.8	v	
		$V_{\rm CC}$ = 4.5 V to 5.5 V			$0.3 \times V_{CC}$	
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	ent $V_{CC} = 3 V$ 2.4-V Min V_{OH}			-16	mA
		V _{CC} = 5 V	2.3-V Min V _{OH}		-24	
		$V_{CC} = 4.5 V$	V _{CC} = 4.5 V			
		V _{CC} = 1.65 V			4	
		$V_{CC} = 2.3 V$			8	
I _{OL}	Low-level output current	$V_{CC} = 3 V$	0.4-V Max V _{OL}		16	mA
		$v_{\rm CC} = 3 v$	0.55-V Max V _{OL}		24	
		$V_{CC} = 4.5 V$			32	
		V_{CC} = 1.8 V \pm 0.15 V		20		
$\Delta t / \Delta v$	Input transition rise or fall rate	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$			10	ns/V
		$V_{CC} = 5~V \pm 0.5~V$		5		
т.	Operating free-air temperature	SN74LVC1G00IDCK	-40	85	°C	
T _A		SN74LVC1G00MDB	-55	125	C	

(1) 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, literature number SCBA004.

SN74LVC1G00-EP SINGLE 2-INPUT POSITIVE-NAND GATE SC在影响时分和ECHMBER 2003份EFVIPE世经中的目的BER 2006

Electrical Characteristics

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

PARAMETER	TEST CONDITIONS	V _{cc}	MIN	TYP ⁽¹⁾	MAX	UNIT	
	I _{OH} = -100 μA	1.65 V to 5.5 V	V _{CC} – 0.1				
	$I_{OH} = -4 \text{ mA}$	1.65 V	1.2				
	$I_{OH} = -8 \text{ mA}$	2.3 V	1.9			V	
V _{OH}	$I_{OH} = -16 \text{ mA}$	3 V	2.4			v	
	$I_{OH} = -24 \text{ mA}$		2.3				
	$I_{OH} = -32 \text{ mA}$	4.5 V	3.8				
	I _{OL} = 100 μA	1.65 V to 5.5 V			0.1		
	I _{OL} = 4 mA	1.65 V			0.45		
V	I _{OL} = 8 mA	2.3 V			0.3	V	
V _{OL}	I _{OL} = 16 mA	3 V			0.4	v	
	$I_{OL} = 24 \text{ mA}$				0.55		
	I _{OL} = 32 mA	4.5 V	0.5				
I _I A or B inputs	$V_1 = 5.5 \text{ V or GND}$	0 to 5.5 V				μA	
l _{off}	$V_{I} \text{ or } V_{O} = 5.5 \text{ V}$	0			±10	μA	
I _{CC}	$V_{I} = 5.5 \text{ V or GND}, I_{O} = 0$	1.65 V to 5.5 V			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	μA	
C _i	$V_{I} = V_{CC} \text{ or } GND$	3.3 V		4		pF	

(1) 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	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		$V_{CC} = 5 V \\ \pm 0.5 V$		UNIT
	(INPOT)		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t _{pd}	A or B	Y	2.2	7.2	0.9	4.4	0.8	3.8	0.8	3.4	ns

Switching Characteristics

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

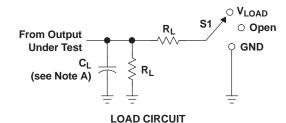
PARAMETER	FROM (INPUT)	TO (OUTPUT)	DEVICE	V _{CC} = ± 0.7		V _{CC} = ± 0.		V _{CC} = ± 0.		= V _{CC} ± 0.5		UNIT
		(001701)		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
•	A or P	V	SN74LVC1G00M	3.1	9	1.3	7.0	1	6.3	1	5	20
Чрd	A or B	ř	SN74LVC1G00I	3.1	9	1.3	5.5	1	4.7	1	4	ns

Operating Characteristics

 $T_A = 25^{\circ}C$

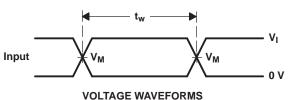
PARAMETER		TEST CONDITIONS	V _{CC} = 1.8 V	$V_{CC} = 2.5 V$	V _{CC} = 3.3 V	$V_{CC} = 5 V$	UNIT
			TYP	TYP	TYP	TYP	0
\mathbf{C}_{pd}	Power dissipation capacitance	f = 10 MHz	22	22	23	25	pF

PARAMETER MEASUREMENT INFORMATION

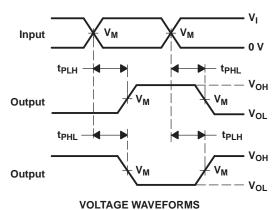


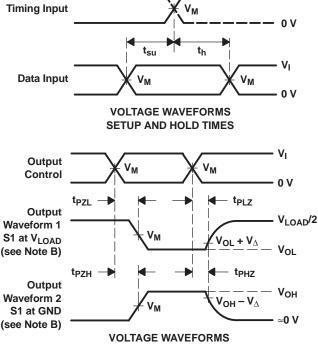
TEST	S1
t _{PLH} /t _{PHL}	Open
t _{PLZ} /t _{PZL}	V _{LOAD}
t _{PHZ} /t _{PZH}	GND

	INPUTS VI t _r /t _f				-	_	
V _{CC}			VM	V _{LOAD}	CL	RL	V_{Δ}
1.8 V \pm 0.15 V	V _{CC}	≤2 ns	V _{CC} /2	$2 \times V_{CC}$	15 pF	1 Μ Ω	0.15 V
$\textbf{2.5 V} \pm \textbf{0.2 V}$	Vcc	≤2 ns	V _{CC} /2	2 × V _{CC}	15 pF	1 Μ 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	Vcc	≤2.5 ns	Vcc/2	2×Vcc	15 pF	1 MΩ	0.3 V



PULSE DURATION





ENABLE AND DISABLE TIMES LOW- AND HIGH-LEVEL ENABLING

NOTES: A. C_L includes probe and jig capacitance.

PROPAGATION DELAY TIMES

INVERTING AND NONINVERTING OUTPUTS

- 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 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 1. Load Circuit and Voltage Waveforms

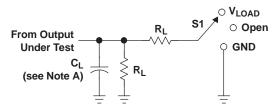
VI

SN74LVC1G00-EP SINGLE 2-INPUT POSITIVE-NAND GATE scenter 和 2006



Vı

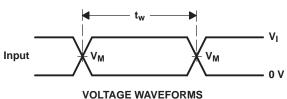
PARAMETER MEASUREMENT INFORMATION (continued)



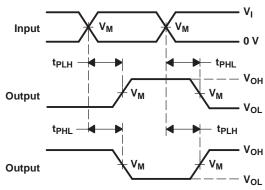
TEST	S1
t _{PLH} /t _{PHL}	Open
t _{PLZ} /t _{PZL}	V _{LOAD}
t _{PHZ} /t _{PZH}	GND

LOAD CIRCUIT

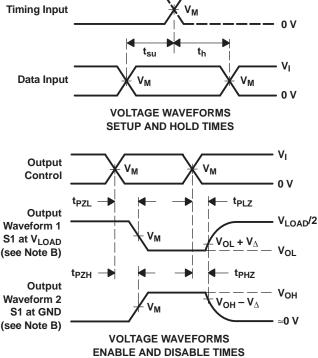
	INPUTS				•	-	
V _{CC}	VI	t _r /t _f	V _M	V _{LOAD}	CL	RL	V_{Δ}
$1.8~V\pm0.15~V$	V _{CC}	≤2 ns	V _{CC} /2	$2 \times V_{CC}$	30 pF	1 k Ω	0.15 V
$\textbf{2.5 V} \pm \textbf{0.2 V}$	V _{CC}	≤2 ns	V _{CC} /2	$2 \times V_{CC}$	30 pF	500 Ω	0.15 V
3.3 V \pm 0.3 V	3 V	≤2.5 ns	1.5 V	6 V	50 pF	500 Ω	0.3 V
5 V \pm 0.5 V	V _{CC}	≤2.5 ns	V _{CC} /2	$2 \times V_{CC}$	50 pF	500 Ω	0.3 V



VOLTAGE WAVEFORMS PULSE DURATION







ENABLE AND DISABLE TIMES LOW- AND HIGH-LEVEL ENABLING

- 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 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

PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
SN74LVC1G00IDCKREP	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G00MDBVREP	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74LVC1G00MDCKREP	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
V62/04732-01XE	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
V62/04732-02XE	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
V62/04732-02YE	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM

⁽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⁾ Eco Plan - The planned eco-friendly classification: Pb-Free (RoHS), Pb-Free (RoHS Exempt), or Green (RoHS & no Sb/Br) - please check http://www.ti.com/productcontent for the latest availability information and additional product content details.

TBD: The Pb-Free/Green conversion plan has not been defined.

Pb-Free (RoHS): TI's terms "Lead-Free" or "Pb-Free" mean semiconductor products that are compatible with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI Pb-Free products are suitable for use in specified lead-free processes.

Pb-Free (RoHS Exempt): This component has a RoHS exemption for either 1) lead-based flip-chip solder bumps used between the die and package, or 2) lead-based die adhesive used between the die and leadframe. The component is otherwise considered Pb-Free (RoHS compatible) as defined above.

Green (RoHS & no Sb/Br): TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame retardants (Br or Sb do not exceed 0.1% by weight in homogeneous material)

⁽³⁾ MSL, Peak Temp. -- The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

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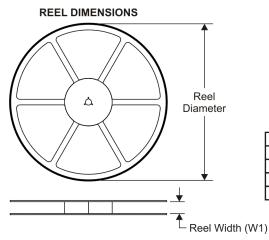
Catalog: SN74LVC1G00

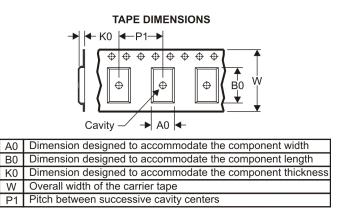
NOTE: Qualified Version Definitions:

• Catalog - TI's standard catalog product

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TAPE AND REEL INFORMATION





QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE

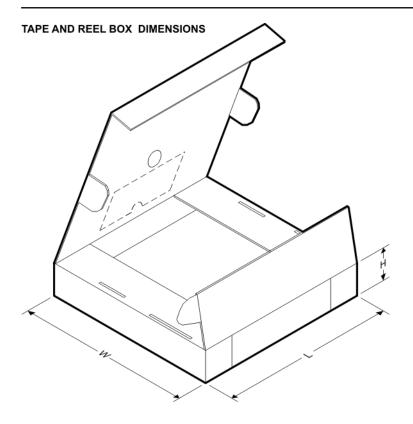


*All dimensions are nominal Device Package Package Pins SPQ Reel A0 B0 K0 P1 W Pin1												
Device	Туре	Drawing		01 0	Diameter		(mm)	(mm)	(mm)	(mm)		Quadrant
SN74LVC1G00IDCKREP	SC70	DCK	5	3000	179.0	8.4	2.2	2.5	1.2	4.0	8.0	Q3
SN74LVC1G00MDBVREP	SOT-23	DBV	5	3000	179.0	8.4	3.2	3.2	1.4	4.0	8.0	Q3
SN74LVC1G00MDCKREP	SC70	DCK	5	3000	179.0	8.4	2.2	2.5	1.2	4.0	8.0	Q3



PACKAGE MATERIALS INFORMATION

20-Jul-2010

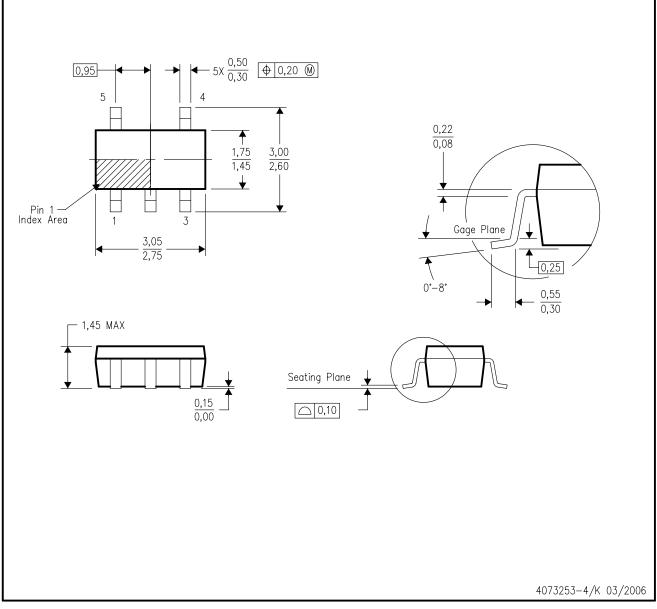


*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74LVC1G00IDCKREP	SC70	DCK	5	3000	203.0	203.0	35.0
SN74LVC1G00MDBVREP	SOT-23	DBV	5	3000	203.0	203.0	35.0
SN74LVC1G00MDCKREP	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.

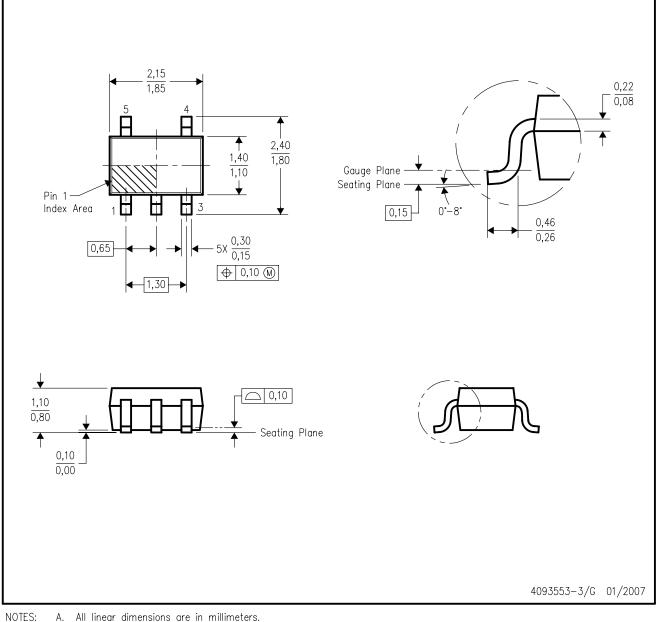
- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion. Mold flash and protrusion shall not exceed 0.15 per side.
- D. Falls within JEDEC MO-178 Variation AA.



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DCK (R-PDSO-G5)

PLASTIC SMALL-OUTLINE PACKAGE



- A. All linear dimensions are in millimeters.
 - B. This drawing is subject to change without notice.
 - C. Body dimensions do not include mold flash or protrusion. Mold flash and protrusion shall not exceed 0.15 per side.
 - D. Falls within JEDEC MO-203 variation AA.



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