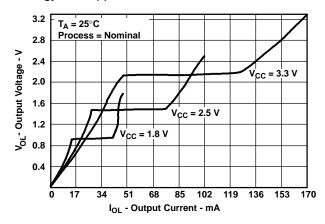


FEATURES

- Member of the Texas Instruments Widebus™ Family
- **DOC™** (Dynamic Output Control) Circuit **Dynamically Changes Output Impedance. Resulting in Noise Reduction Without Speed** Degradation
- **Dynamic Drive Capability Is Equivalent to** Standard Outputs With I_{OH} and I_{OL} of $\pm 24~mA$ at 2.5-V V_{CC}
- Overvoltage-Tolerant Inputs/Outputs Allow Mixed-Voltage-Mode Data Communications
- I_{off} Supports Partial-Power-Down Mode Operation
- **ESD Protection Exceeds JESD 22**
 - 2000-V Human-Body Model (A114-A)
 - 200-V Machine Model (A115-A)
- Latch-Up Performance Exceeds 100 mA Per JESD 78, Class II

DESCRIPTION/ORDERING INFORMATION

A Dynamic Output Control (DOC™) circuit is implemented, which, during the transition, initially lowers the output impedance to effectively drive the load and, subsequently, raises the impedance to reduce noise. Figure 1 shows typical V_{OL} vs I_{OL} and V_{OH} vs I_{OH} curves to illustrate the output impedance and drive capability of the circuit. At the beginning of the signal transition, the DOC circuit provides a maximum dynamic drive that is equivalent to a high-drive standard-output device. For more information, refer to the TI application reports, AVC Logic Family Technology and Applications, literature number SCEA006, and Dynamic Output Control (DOC™) Circuitry Technology and Applications, literature number SCEA009.



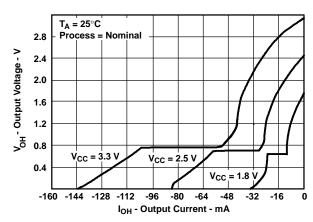


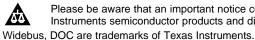
Figure 1. Output Voltage vs Output Current

This 18-bit universal bus driver is operational at 1.2-V to 3.6-V V_{CC}, but is designed specifically for 1.65-V to 3.6-V V_{CC} operation.

Data flow from A to Y is controlled by the output-enable (OE) input. The device operates in the transparent mode when the latch-enable (LE) input is low. The A data is latched if the clock (CLK) input is held at a high or low logic level. If LE is high, the A data is stored in the latch/flip-flop on the low-to-high transition of CLK. When OE is high, the outputs are in the high-impedance state.

To ensure the high-impedance state during power up or power down, \overline{OE} should be tied to V_{CC} through a pullup resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver.

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.



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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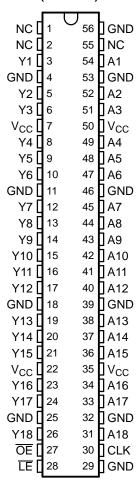
ORDERING INFORMATION

T _A	TSSOP – DGV Tape and reel	E ⁽¹⁾	ORDERABLE PART NUMBER	TOP-SIDE MARKING
–40°C to 85°C	TSSOP - DGG	Tape and reel	SN74AVC16834DGGR	AVC16834
-40 C 10 65 C	TVSOP - DGV	Tape and reel	SN74AVC16834DGVR	CVA834

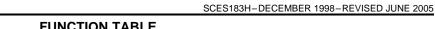
⁽¹⁾ Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.

TERMINAL ASSIGNMENTS

DGG OR DGV PACKAGE (TOP VIEW)



NC - No internal connection



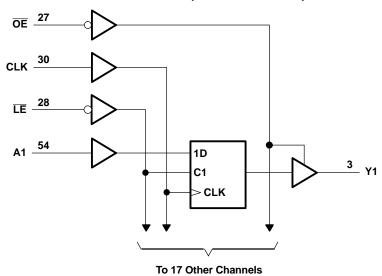


FUNCTION TABLE (EACH UNIVERSAL BUS DRIVER)

	INP	UTS		OUTPUT
ŌĒ	LE	CLK	Α	Υ
Н	Χ	Χ	Χ	Z
L	L	Χ	L	L
L	L	Χ	Н	Н
L	Н	\uparrow	L	L
L	Н	\uparrow	Н	Н
L	Н	Н	X	Y ₀ ⁽¹⁾ Y ₀ ⁽²⁾
L	Н	L	Χ	Y ₀ (2)

- Output level before the indicated steady-state input conditions were established, provided that CLK is high before LE goes high
 Output level before the indicated steady-state input conditions were
- established

LOGIC DIAGRAM (POSITIVE LOGIC)



SN74AVC16834 **18-BIT UNIVERSAL BUS DRIVER** WITH 3-STATE OUTPUTS

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Absolute Maximum Ratings⁽¹⁾

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

			MIN	MAX	UNIT	
V_{CC}	Supply voltage range		-0.5	4.6	V	
VI	Input voltage range ⁽²⁾	out voltage range ⁽²⁾				
Vo	Voltage range applied to any output in the high-imp	pedance or power-off state ⁽²⁾	-0.5	4.6	V	
Vo	Voltage range applied to any output in the high or I	ow state ⁽²⁾⁽³⁾	-0.5	V _{CC} + 0.5	V	
I _{IK}	Input clamp current	V _I < 0		-50	mA	
I _{OK}	Output clamp current	V _O < 0		-50	mA	
Io	Continuous output current			±50	mA	
	Continuous current through each V _{CC} or GND			±100	mA	
0	Decline the second increase (4)	DGG package		64	°C/W	
θ_{JA}	Package thermal impedance ⁽⁴⁾		48	C/VV		
T _{stg}	Storage temperature range	DGV package prage temperature range				

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.

The input and output negative-voltage ratings may be exceeded if the input and output current ratings are observed. The output positive-voltage rating may be exceeded up to 4.6 V maximum if the output current rating is observed.

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



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Recommended Operating Conditions⁽¹⁾

			MIN	MAX	UNIT
V	Cupply valtage	Operating	1.4	3.6	V
V_{CC}	Supply voltage	Data retention only	1.2		V
		V _{CC} = 1.2 V	V _{CC}		
		$V_{CC} = 1.4 \text{ V to } 1.6 \text{ V}$	0.65 × V _{CC}		
V_{IH}	High-level input voltage	$V_{CC} = 1.65 \text{ V to } 1.95 \text{ V}$	0.65 × V _{CC}		V
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	1.7		
		V _{CC} = 3 V to 3.6 V	2		
		V _{CC} = 1.2 V		GND	
		V _{CC} = 1.4 V to 1.6 V		0.35 × V _{CC}	
V_{IL}	Low-level input voltage	V _{CC} = 1.65 V to 1.95 V		0.35 × V _{CC}	V
		V _{CC} = 2.3 V to 2.7 V		0.7	
		V _{CC} = 3 V to 3.6 V		0.8	
VI	Input voltage		0	3.6	V
V	Outroit valta as	Active state	0	V _{CC}	V
Vo	Output voltage	3-state	0	3.6	V
		V _{CC} = 1.4 V to 1.6 V		-2	
	Static high level cutout current (2)	V _{CC} = 1.65 V to 1.95 V		-4	A
I _{OHS}	Static high-level output current ⁽²⁾	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		-8	mA
		V _{CC} = 3 V to 3.6 V		-12	
		V _{CC} = 1.4 V to 1.6 V		2	
	Ctatic law laws and autout auronat(2)	V _{CC} = 1.65 V to 1.95 V		4	A
I _{OLS}	Static low-level output current ⁽²⁾	V _{CC} = 2.3 V to 2.7 V		8	mA
		$V_{CC} = 3 \text{ V to } 3.6 \text{ V}$		12	
Δt/Δν	Input transition rise or fall rate	V _{CC} = 1.4 V to 3.6 V		5	ns/V
T_A	Operating free-air temperature		-40	85	°C

All unused inputs of the device must be held at V_{CC} or GND to ensure proper device operation. Refer to the TI application report, Implications of Slow or Floating CMOS Inputs, literature number SCBA004. Dynamic drive capability is equivalent to standard outputs with I_{OH} and I_{OL} of ± 24 mA at 3.3-V V_{CC} . See Figure 1 for V_{OL} vs I_{OL} and V_{OH} vs I_{OH} characteristics. Refer to the TI application reports, AVC Logic Family Technology and Applications, literature number SCEA006, and Dynamic Output Control (DOCTM) Circuitry Technology and Applications, literature number SCEA009.

SN74AVC16834 18-BIT UNIVERSAL BUS DRIVER WITH 3-STATE OUTPUTS

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Electrical Characteristics

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

	PARAMETER	TEST CO	ONDITIONS	V _{cc}	MIN TY	P ⁽¹⁾ MAX	UNIT
		$I_{OHS} = -100 \mu A$		1.4 V to 3.6 V	V _{CC} - 0.2		
		$I_{OHS} = -2 \text{ mA},$	V _{IH} = 0.91 V	1.4 V	1.05		
V_{OH}		$I_{OHS} = -4 \text{ mA},$	V _{IH} = 1.07 V	1.65 V	1.2		V
		$I_{OHS} = -8 \text{ mA},$	V _{IH} = 1.7 V	2.3 V	1.75		
		$I_{OHS} = -12 \text{ mA},$	$V_{IH} = 2 V$	3 V	2.3		
		$I_{OLS} = 100 \mu\text{A}$		1.4 V to 3.6 V		0.2	
		$I_{OLS} = 2 \text{ mA},$	V _{IL} = 0.49 V	1.4 V		0.4	
V_{OL}		$I_{OLS} = 4 \text{ mA},$	V _{IL} = 0.57 V	1.65 V		0.45	V
		$I_{OLS} = 8 \text{ mA},$	V _{IL} = 0.7 V	2.3 V		0.55	
		$I_{OLS} = 12 \text{ mA},$	V _{IL} = 0.8 V	3 V		0.7	
I		$V_I = V_{CC}$ or GND		3.6 V		±2.5	μΑ
I _{off}		$V_{1} \text{ or } V_{O} = 3.6 \text{ V}$		0		±10	μΑ
l _{OZ}		$V_O = V_{CC}$ or GND		3.6 V		±10	μΑ
I _{CC}		$V_I = V_{CC}$ or GND,	I _O = 0	3.6 V		40	μΑ
	CLK input	V V or CND		2.5 V		4	
	CLK input	$V_I = V_{CC}$ or GND		3.3 V		4	
_	O a start i a musta	V V OND		2.5 V		4	=
Ci	Control inputs	$V_I = V_{CC}$ or GND		3.3 V		4	pF
	Data innuta	V V or CND		2.5 V		2.5	
	Data inputs	$V_I = V_{CC}$ or GND		3.3 V		2.5	
^	0.1	V V == 0ND		2.5 V		6.5	
Co	Outputs	$V_O = V_{CC}$ or GND		3.3 V		6.5	pF

⁽¹⁾ Typical values are measured at $T_A = 25$ °C.

Timing Requirements

over recommended operating free-air temperature range (unless otherwise noted) (see Figure 2 through Figure 5)

				V _{CC} =	1.2 V	V _{CC} = ± 0.7		V _{CC} = ± 0.1		V _{CC} = ± 0.2		V _{CC} = ± 0.3	3.3 V 3 V	UNIT
				MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
f _{clock}	Clock frequ	iency							150		150		150	MHz
	Pulse	LE low						3.3		3.3		3.3		ns
t _w	duration	CLK high or lo	DW .					3.3		3.3		3.3		115
	_	Data before C	:LK↑	1		0.9		0.7		0.7		0.7		
t _{su}	Setup time	Data	CLK high	1.6		1.5		1		1		1		ns
		before <u>LE</u> ↑	CLK low	3.1		1.7		1.3		1		1		
		Data after CLI	K↑	1.5		1.3		1		0.9		0.9		
t _h	Hold time	Data after <u>LE</u> ↑	CLK high	2.5		2		1.8		1.5		1.4		ns
		Data after LE↑	CLK low	2		1.7		1.5		1.3		1.3		



WITH 3-STATE OUTPUTS
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Switching Characteristics

over recommended operating free-air temperature range (unless otherwise noted) (see Figure 2 through Figure 5)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 1.2 V	V _{CC} = 1 ± 0.1	1.5 V 1 V	V _{CC} = ± 0.1		V _{CC} = 1 ± 0.2		V _{CC} = 0.3		UNIT
	(INFOT)	(001701)	TYP	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
f _{max}						150		150		150		MHz
	Α		5.3	1.2	6.2	1.5	4.9	1	3.2	0.9	2.5	
t _{pd}	LE	Υ	7	2.2	9.7	1.8	7.5	1.5	4.9	0.8	4	ns
	CLK		6	1.9	7.8	1.6	6	1.1	3.7	1	3.1	
t _{en}	ŌĒ	Y	7.9	2.4	10.2	1.6	8.8	1.5	6.7	1	6.2	ns
t _{dis}	ŌĒ	Y	7.7	2.1	10.3	1.5	8.4	1.2	5.3	1	5.3	ns

Switching Characteristics⁽¹⁾

 $T_A = 0$ °C to 85°C, $C_L = 0$ pF

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 3 ± 0.1	3.3 V 5 V	UNIT
	(INFOT)	(001701)	MIN	MAX	
	Α	V	0.6	1.3	
τ _{pd}	CLK	Y	0.7	1.5	ns

⁽¹⁾ Texas Instruments SPICE simulation data

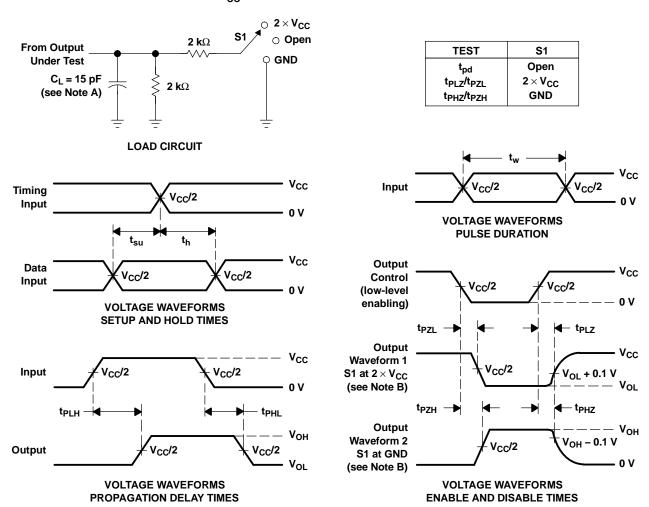
Operating Characteristics

 $T_A = 25^{\circ}C$

	PARAMETE	R	TEST	CONDITIONS	V _{CC} = 1.8 V	V _{CC} = 2.5 V		UNIT
					TYP	TYP	TYP	
0	Power dissipation	Outputs enabled	C - 0	f = 10 MHz	45	48	52	nE
C _{pd}	capacitance	Outputs disabled	$C_L = 0,$	I = IO MINZ	23	25	28	p⊦



PARAMETER MEASUREMENT INFORMATION V_{CC} = 1.2 V AND 1.5 V \pm 0.1 V

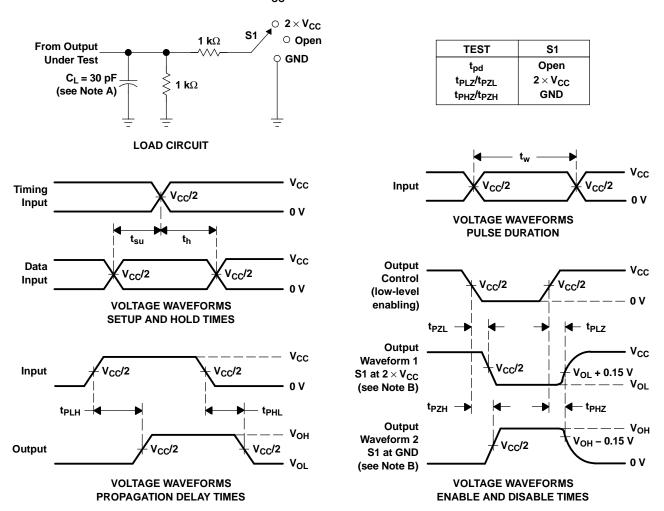


- NOTES: A. C_L includes probe and jig capacitance.
 - B. Waveform 1 is for an output with internal conditions such that the output is low, except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high, except when disabled by the output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

Figure 2. Load Circuit and Voltage Waveforms



PARAMETER MEASUREMENT INFORMATION $V_{CC} = 1.8 \text{ V} \pm 0.15 \text{ V}$



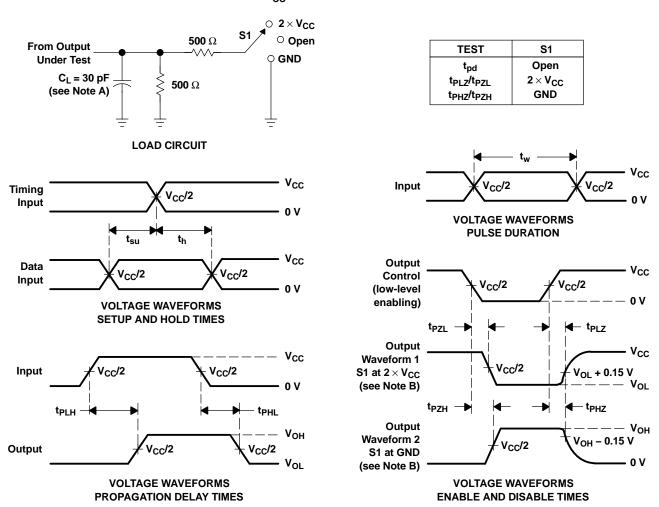
NOTES: A. C_L includes probe and jig capacitance.

- 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, $Z_O = 50~\Omega$, $t_f \leq$ 2 ns, $t_f \leq$ 2 ns.
- 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}.

Figure 3. Load Circuit and Voltage Waveforms



PARAMETER MEASUREMENT INFORMATION V_{CC} = 2.5 V ± 0.2 V

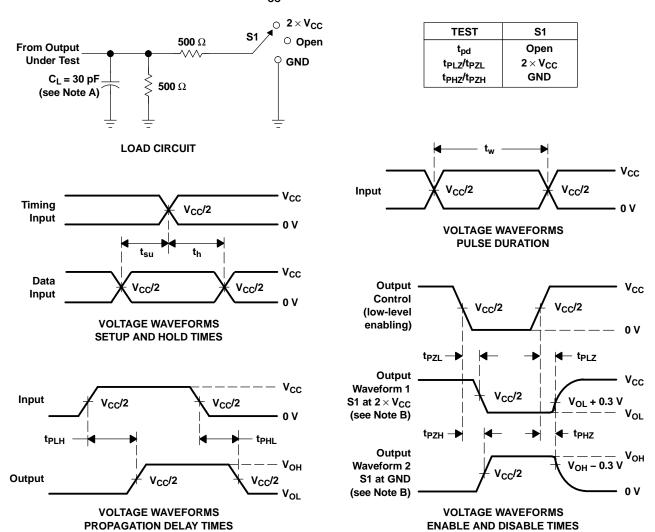


- NOTES: A. C_L includes probe and jig capacitance.
 - B. Waveform 1 is for an output with internal conditions such that the output is low, except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high, except when disabled by the output control.
 - C. All input pulses are supplied by generators having the following characteristics: $PRR \le 10 \text{ MHz}$, $Z_0 = 50 \Omega$, $t_r \le 2 \text{ ns}$, $t_f \le 2 \text{ ns}$.
 - 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}.

Figure 4. Load Circuit and Voltage Waveforms



PARAMETER MEASUREMENT INFORMATION $V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$



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_O = 50 Ω , $t_f \leq$ 2 ns.
- 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} .

Figure 5. Load Circuit and Voltage Waveforms



PACKAGE OPTION ADDENDUM

10-Dec-2020

PACKAGING INFORMATION

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Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead finish/ Ball material	MSL Peak Temp	Op Temp (°C)	Device Marking (4/5)	Samples
SN74AVC16834DGGR	ACTIVE	TSSOP	DGG	56	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AVC16834	Samples
SN74AVC16834DGVR	ACTIVE	TVSOP	DGV	56	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	CVA834	Samples

(1) The marketing status values are defined as follows:

ACTIVE: Product device recommended for new designs.

LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

PREVIEW: Device has been announced but is not in production. Samples may or may not be available.

OBSOLETE: TI has discontinued the production of the device.

(2) RoHS: TI defines "RoHS" to mean semiconductor products that are compliant with the current EU RoHS requirements for all 10 RoHS substances, including the requirement that RoHS substance do not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, "RoHS" products are suitable for use in specified lead-free processes. TI may reference these types of products as "Pb-Free".

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

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

- (3) MSL, Peak Temp. The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.
- (4) There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.
- (5) Multiple Device Markings will be inside parentheses. Only one Device Marking contained in parentheses and separated by a "~" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Device Marking for that device.
- (6) Lead finish/Ball material Orderable Devices 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.

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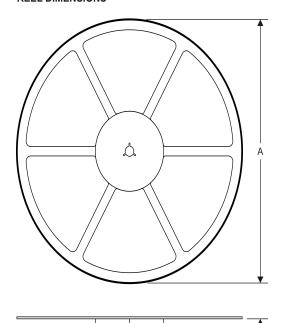
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PACKAGE MATERIALS INFORMATION

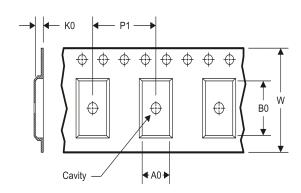
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TAPE AND REEL INFORMATION

REEL DIMENSIONS



TAPE DIMENSIONS



A0	Dimension designed to accommodate the component width
В0	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

TAPE AND REEL INFORMATION

*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
SN74AVC16834DGGR	TSSOP	DGG	56	2000	330.0	24.4	8.6	15.6	1.8	12.0	24.0	Q1
SN74AVC16834DGVR	TVSOP	DGV	56	2000	330.0	24.4	6.8	11.7	1.6	12.0	24.0	Q1

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*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74AVC16834DGGR	TSSOP	DGG	56	2000	367.0	367.0	45.0
SN74AVC16834DGVR	TVSOP	DGV	56	2000	367.0	367.0	45.0

DGV (R-PDSO-G**)

24 PINS SHOWN

PLASTIC SMALL-OUTLINE



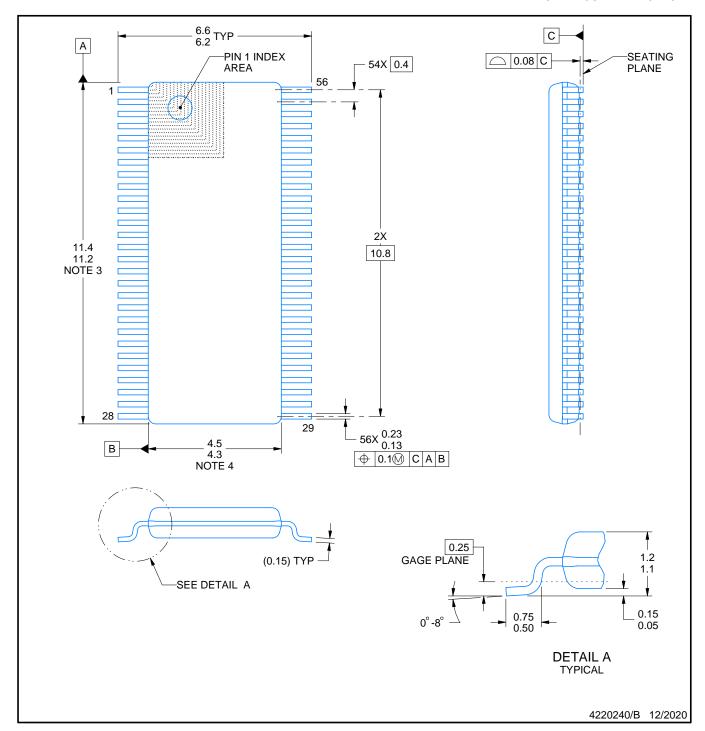
NOTES: A. All linear dimensions are in millimeters.

B. This drawing is subject to change without notice.

C. Body dimensions do not include mold flash or protrusion, not to exceed 0,15 per side.

D. Falls within JEDEC: 24/48 Pins – MO-153 14/16/20/56 Pins – MO-194





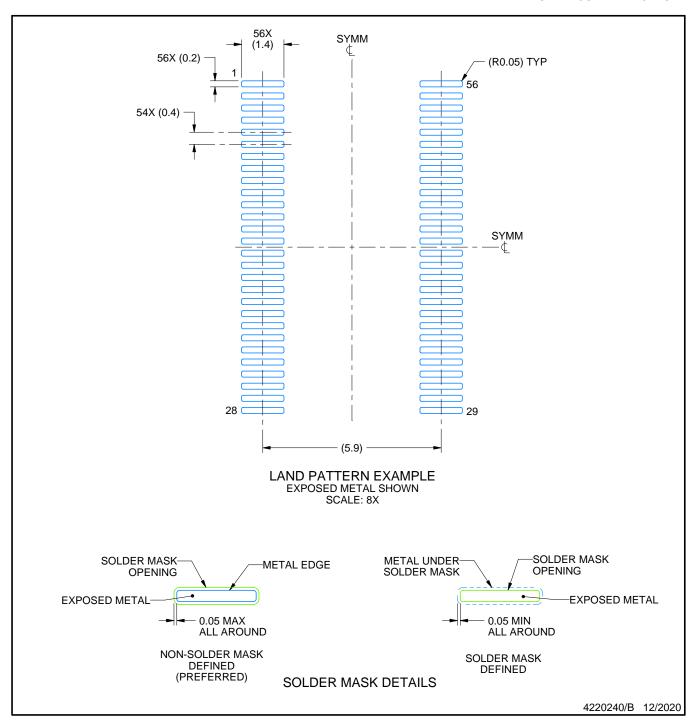
NOTES:

- 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. This dimension does not include interlead flash. Interlead flash shall not exceed 0.25 mm per side.
- 5. Reference JEDEC registration MO-194.



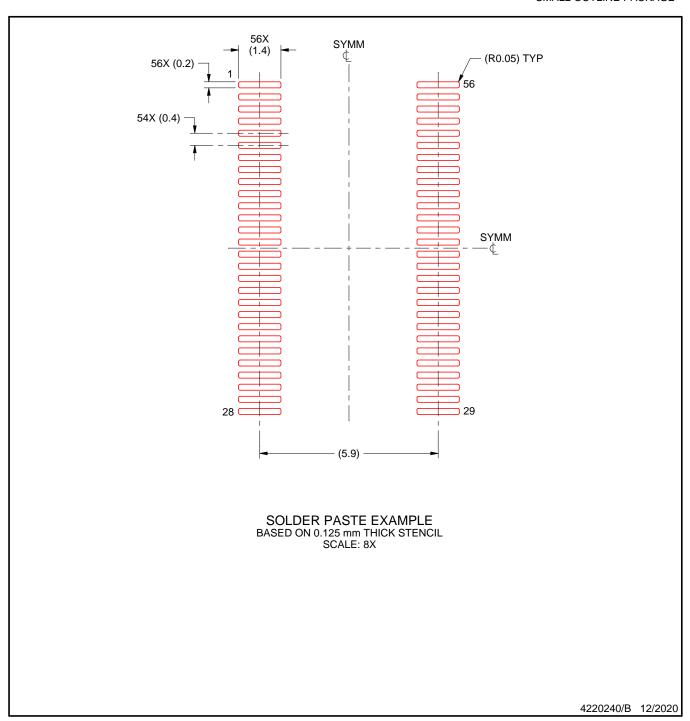


NOTES: (continued)

6. Publication IPC-7351 may have alternate designs.

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



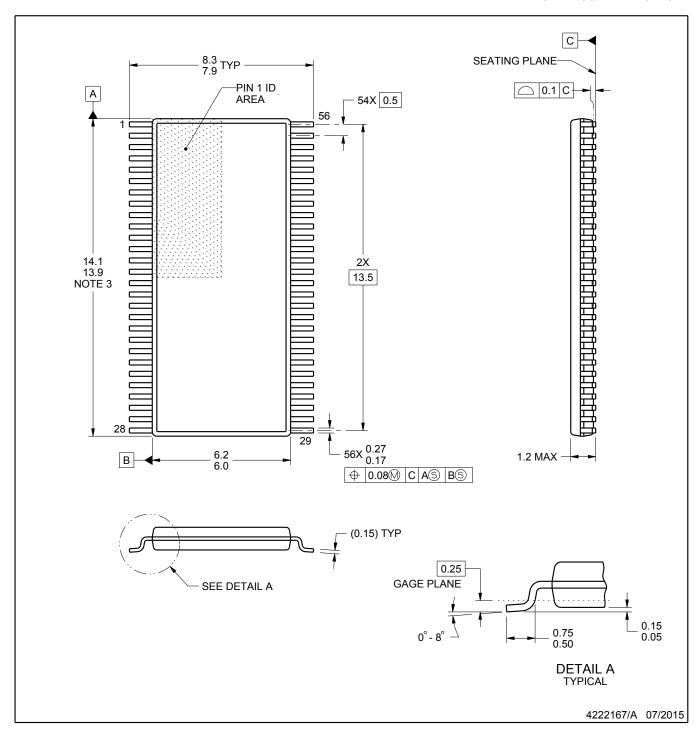


NOTES: (continued)

- 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.







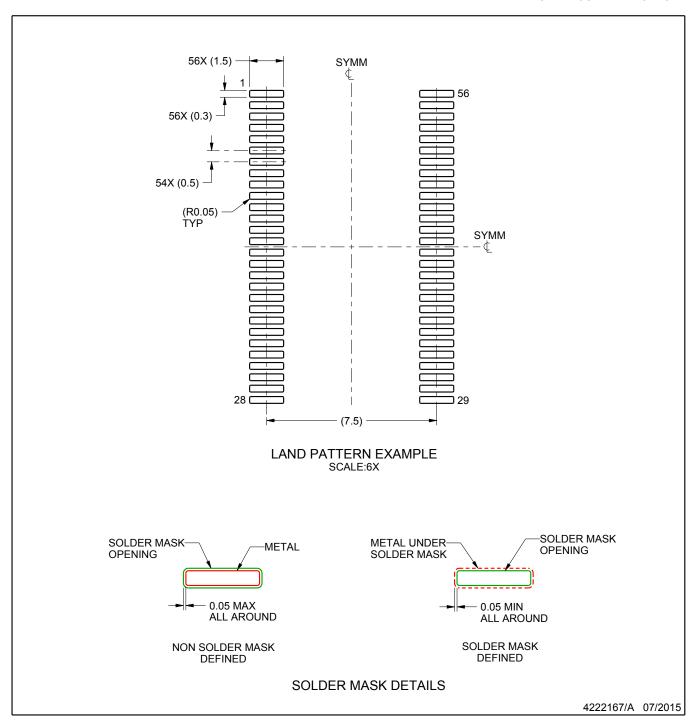
NOTES:

- 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-153.

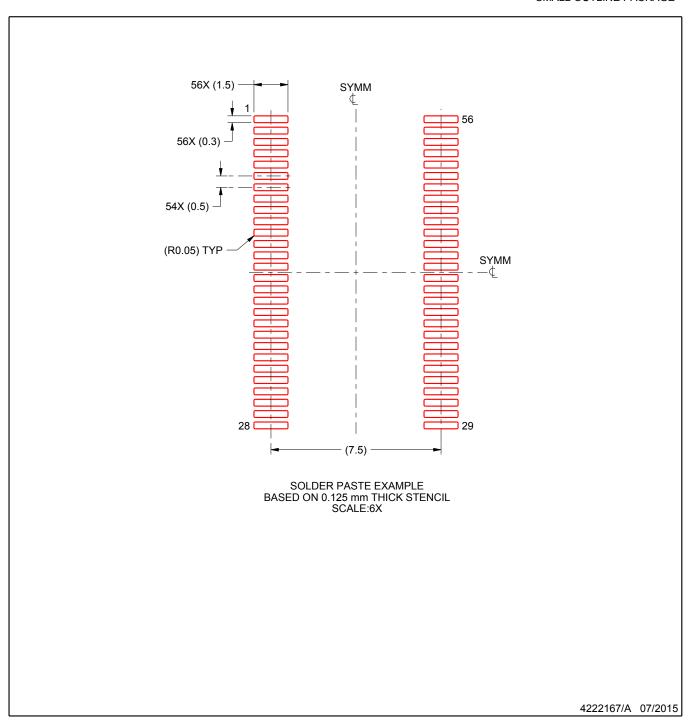




NOTES: (continued)

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





NOTES: (continued)

- 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.



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