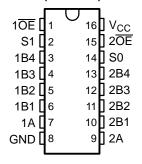
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FEATURES

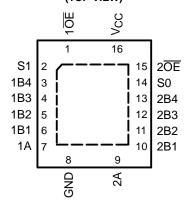
- High-Bandwidth Data Path (up to 500 MHz ⁽¹⁾)
- 5-V Tolerant I/Os With Device Powered Up or Powered Down
- Low and Flat ON-State Resistance (r_{on})
 Characteristics Over Operating Range (r_{on} = 4 Ω Typ)
- Rail-to-Rail Switching on Data I/O Ports
 - 0- to 5-V Switching With 3.3-V V_{CC}
 - 0- to 3.3-V Switching With 2.5-V V_{CC}
- Bidirectional Data Flow With Near-Zero Propagation Delay
- Low Input/Output Capacitance Minimizes Loading and Signal Distortion (C_{io(OFF)} = 3.5 pF Typ)
- Fast Switching Frequency (f_{OE} = 20 MHz Max)
- For additional information regarding the performance characteristics of the CB3Q family, refer to the TI application report CBT-C, CB3T, and CB3Q Signal-Switch Families, literature number SCDA008.

DBQ, DGV, OR PW PACKAGE (TOP VIEW)



- Data and Control Inputs Provide Undershoot Clamp Diodes
- Low Power Consumption (I_{CC} = 0.6 mA Typ)
- V_{CC} Operating Range From 2.3 V to 3.6 V
- Data I/Os Support 0- to 5-V Signal Levels (0.8 V, 1.2 V, 1.5 V, 1.8 V, 2.5 V, 3.3 V, 5 V)
- Control Inputs Can be Driven by TTL or 5-V/3.3-V CMOS Outputs
- I_{off} Supports Partial-Power-Down Mode Operation
- Latch-Up Performance Exceeds 100 mA Per JESD 78, Class II
- ESD Performance Tested Per JESD 22
 - 2000-V Human-Body Model (A114-B, Class II)
 - 1000-V Charged-Device Model (C101)
- Supports Both Digital and Analog Applications: USB Interface, Differential Signal Interface Bus Isolation, Low-Distortion Signal Gating

RGY PACKAGE (TOP VIEW)



DESCRIPTION/ORDERING INFORMATION

The SN74CB3Q3253 is a high-bandwidth FET bus switch utilizing a charge pump to elevate the gate voltage of the pass transistor, providing a low and flat ON-state resistance (r_{on}). The low and flat ON-state resistance allows for minimal propagation delay and supports rail-to-rail switching on the data input/output (I/O) ports. The device also features low data I/O capacitance to minimize capacitive loading and signal distortion on the data bus. Specifically designed to support high-bandwidth applications, the SN74CB3Q3253 provides an optimized interface solution ideally suited for broadband communications, networking, and data-intensive computing systems.



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.

SN74CB3Q3253 DUAL 1-OF-4 FET MULTIPLEXER/DEMULTIPLEXER 2.5-V/3.3-V LOW-VOLTAGE HIGH-BANDWIDTH BUS SWITCH

TEXAS INSTRUMENTS

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DESCRIPTION/ORDERING INFORMATION (CONTINUED)

The SN74CB3Q3253 is organized as two 1-of-4 multiplexers/demultiplexers with separate output-enable($1\overline{OE}$, $2\overline{OE}$) inputs. The select (S0, S1) inputs control the data path of each multiplexer/demultiplexer. When \overline{OE} is low, the associated multiplexer/demultiplexer is enabled, and the A port is connected to the B port, allowing bidirectional data flow between ports. When \overline{OE} is high, the associated multiplexer/demultiplexer is disabled, and a high-impedance state exists between the A and B ports.

This device is fully specified for partial-power-down applications using I_{off}. The I_{off} circuitry prevents damaging current 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, \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.

ORDERING INFORMATION

T _A	PACKAGE	(1)	ORDERABLE PART NUMBER	TOP-SIDE MARKING
	QFN – RGY	Tape and reel	SN74CB3Q3253RGYR	BU253
SSOP (QSOP) – DBQ	Tape and reel	SN74CB3Q3253DBQR	BU253	
–40°C to 85°C	TCCOD DW	Tube	SN74CB3Q3253PW	DUOSO
	TSSOP – PW	Tape and reel	SN74CB3Q3253PWR	BU253
	TVSOP - DGV	Tape and reel	SN74CB3Q3253DGVR	BU253

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

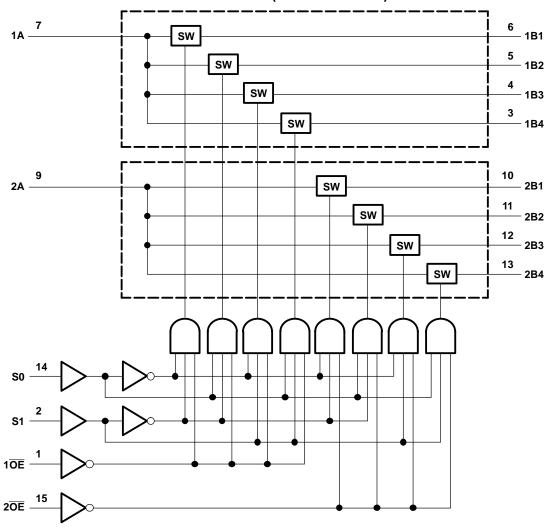
FUNCTION TABLE (EACH MULTIPLEXER)

	INPUTS	;	INPUT/OUTPUT	FUNCTION
ŌĒ	S1	S0	Α	FUNCTION
L	L	L	B1	A port = B1 port
L	L	Н	B2	A port = B2 port
L	Н	L	B3	A port = B3 port
L	Н	Н	B4	A port = B4 port
Н	Χ	X	Z	Disconnect

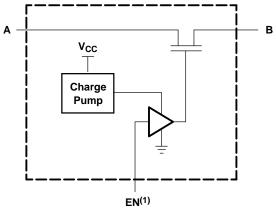


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LOGIC DIAGRAM (POSITIVE LOGIC)



SIMPLIFIED SCHEMATIC, EACH FET SWITCH (SW)



(1) EN is the internal enable signal applied to the switch.

SN74CB3Q3253 **DUAL 1-OF-4 FET MULTIPLEXER/DEMULTIPLEXER** 2.5-V/3.3-V LOW-VOLTAGE HIGH-BANDWIDTH BUS SWITCH



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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	Supply voltage range				
V _{IN}	Control input voltage range ⁽²⁾⁽³⁾		-0.5	7	V	
V _{I/O}	Switch I/O voltage range(2)(3)(4)		-0.5	7	V	
I _{IK}	Control input clamp current	V _{IN} < 0		-50	mA	
I _{I/OK}	I/O port clamp current	V _{I/O} < 0		-50	mA	
I _{I/O}	ON-state switch current ⁽⁵⁾		±64	mA		
	Continuous current through V _{CC} or GND			±100	mA	
		DBQ package (6)		90		
0	Deale as the real impedance	DGV package ⁽⁶⁾		120	°C/M	
θ_{JA}	Package thermal impedance	PW package ⁽⁶⁾		108 °C/W		
		RGY package ⁽⁷⁾		39		
T _{stg}	Storage temperature range		-65	150	°C	

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.

All voltages are with respect to ground, unless otherwise specified.

- V_I and V_O are used to denote specific conditions for V_{I/O}.
- $I_{\rm l}$ and $I_{\rm O}$ are used to denote specific conditions for $I_{\rm l/O}$. The package thermal impedance is calculated in accordance with JESD 51-7.
- The package thermal impedance is calculated in accordance with JESD 51-5.

Recommended Operating Conditions⁽¹⁾

			MIN	MAX	UNIT	
V _{CC}	Supply voltage		2.3	3.6	V	
\/	V _{IH} High-level control input voltage	V _{CC} = 2.3 V to 2.7 V	1.7	5.5	V	
V _{IH} nigri-ievei control input voltage	right-level control input voltage	$V_{CC} = 2.7 \text{ V to } 3.6 \text{ V}$	2	5.5	V	
V	N	V _{CC} = 2.3 V to 2.7 V	0	0.7	V	
V _{IL}	Low-level control input voltage	V _{CC} = 2.7 V to 3.6 V	0	0.8	V	
$V_{I/O}$	Data input/output voltage		0	5.5	V	
T_A	Operating free-air temperature		-40	85	°C	

All unused control 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.

The input and output voltage ratings may be exceeded if the input and output clamp-current ratings are observed.



SN74CB3Q3253 **DUAL 1-OF-4 FET MULTIPLEXER/DEMULTIPLEXER** 2.5-V/3.3-V LOW-VOLTAGE HIGH-BANDWIDTH BUS SWITCH

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Electrical Characteristics(1)

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

Р	ARAMETER		TEST CONDITIONS			TYP ⁽²⁾	MAX	UNIT	
V _{IK}		$V_{CC} = 3.6 \text{ V},$	I _I = -18 mA				-1.8	V	
I _{IN}	Control inputs	$V_{CC} = 3.6 \text{ V},$	V _{IN} = 0 to 5.5 V				±1	μΑ	
I _{OZ} (3)		V _{CC} = 3.6 V,	$V_O = 0 \text{ to } 5.5 \text{ V},$ $V_I = 0,$	Switch OFF, V _{IN} = V _{CC} or GND			±1	μΑ	
I _{off}		$V_{CC} = 0$,	$V_0 = 0 \text{ to } 5.5 \text{ V},$	$V_I = 0$			1	μΑ	
I _{CC}		V _{CC} = 3.6 V,	$I_{I/O} = 0$, Switch ON or OFF,	$V_{IN} = V_{CC}$ or GND		0.6	2	mA	
$\Delta I_{CC}^{(4)}$	Control inputs	$V_{CC} = 3.6 \text{ V},$	One input at 3 V,	Other inputs at V _{CC} or GND			30	μΑ	
. (5)	Dan control inner	$V_{CC} = 3.6 \text{ V},$	A and B ports open,	OE input		0.15	0.16	mA/	
I _{CCD} ⁽⁵⁾	Per control input	Control input switchir	ng at 50% duty cycle	S input		0.04	0.05	MHz	
C _{in}	Control inputs	$V_{CC} = 3.3 \text{ V},$	V _{IN} = 5.5 V, 3.3 V, or	0		2.5	3.5	pF	
	A port	V _{CC} = 3.3 V,	Switch OFF, V _{IN} = V _{CC} or GND,	V _{I/O} = 5.5 V, 3.3 V, or 0		8	11	pF	
C _{io(OFF)}	B port	V _{CC} = 3.3 V,	Switch OFF, V _{IN} = V _{CC} or GND,	V _{I/O} = 5.5 V, 3.3 V, or 0		3.5	4.5	pF	
C _{io(ON)}		V _{CC} = 3.3 V,	Switch ON, V _{IN} = V _{CC} or GND,	V _{I/O} = 5.5 V, 3.3 V, or 0		13	17	pF	
		V _{CC} = 2.3 V,	$V_I = 0$,	I _O = 30 mA		4	10		
- (6)		TYP at $V_{CC} = 2.5 \text{ V}$		I _O = -15 mA		4.5	11	0	
r _{on} ⁽⁶⁾		V - 2 V	$V_I = 0$,	I _O = 30 mA		3.5	8	Ω	
		$V_{CC} = 3 V$	V _I = 2.4 V,	I _O = -15 mA		4	10	0	

- V_{IN} and I_{IN} refer to control inputs. V_I , V_O , I_I , and I_O refer to data pins. All typical values are at V_{CC} = 3.3 V (unless otherwise noted), T_A = 25°C.
- For I/O ports, the parameter I_{OZ} includes the input leakage current.
- This is the increase in supply current for each input that is at the specified TTL voltage level, rather than V_{CC} or GND.
- This parameter specifies the dynamic power-supply current associated with the operating frequency of a single control input (see Figure 2).
- Measured by the voltage drop between the 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.

Switching Characteristics

over recommended operating free-air temperature range (unless otherwise noted) (see Figure 3)

PARAMETER	FROM	TO (OUTPUT)	V _{CC} = ± 0.2	2.5 V 2 V	V _{CC} = 3.3 V ± 0.3 V		UNIT
	(INPUT)	(OUTPUT)	MIN	MAX	MIN	MAX	
f _{OE} or f _S ⁽¹⁾	OE or S	A or B		10		20	MHz
t _{pd} (2)	A or B	B or A		0.12		0.18	ns
t _{pd(s)}	S	A	1.5	6.7	1.5	5.9	ns
	S	В	1.5	6.7	1.5	5.9	20
t _{en}	ŌĒ	A or B	1.5	6.7	1.5	5.9	ns
4	S	В	1	6.1	1	6.1	20
t _{dis}	ŌĒ	A or B	1	6.1	1	6.1	ns

- Maximum switching frequency for control input (V_O > V_{CC}, V_I = 5 V, R_L \ge 1 M Ω , C_L = 0).
- The propagation delay is the calculated RC time constant of the typical ON-state resistance of the switch and the specified load capacitance, when driven by an ideal voltage source (zero output impedance).



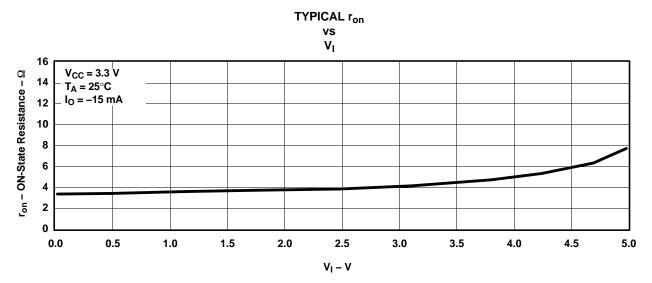


Figure 1. Typical r_{on} vs V_{I} , V_{CC} = 3.3 V and I_{O} = -15 mA

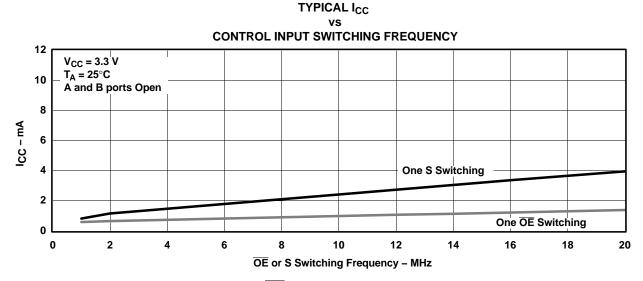
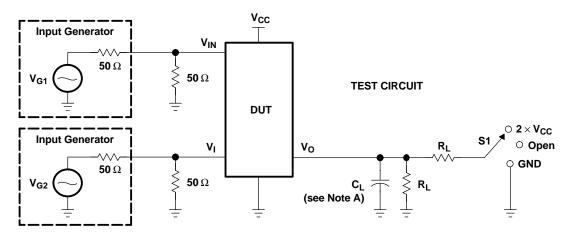


Figure 2. Typical I_{CC} vs \overline{OE} or S Switching Frequency, V_{CC} = 3.3 V

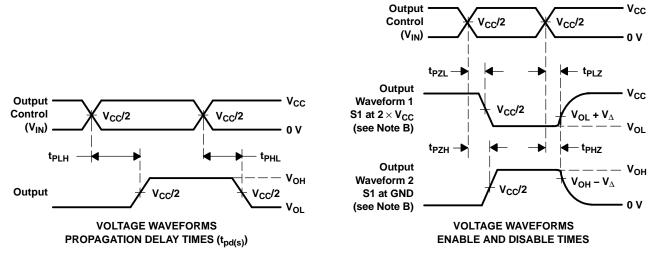


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PARAMETER MEASUREMENT INFORMATION



TEST	V _{CC}	S1	R _L	VI	CL	V_{Δ}
t _{pd(s)}	2.5 V \pm 0.2 V	Open	500 Ω	V _{CC} or GND	30 pF	
-pu(s)	3.3 V \pm 0.3 V	Open	500 Ω	V _{CC} or GND	50 pF	
t _{PLZ} /t _{PZL}	2.5 V ± 0.2 V	2×V _{CC}	500 Ω	GND	30 pF	0.15 V
PLZ/PZL	3.3 V \pm 0.3 V	2×V _{CC}	500 Ω	GND	50 pF	0.3 V
4 /4	2.5 V ± 0.2 V	GND	500 Ω	V _{CC}	30 pF	0.15 V
t _{PHZ} /t _{PZH}	3.3 V \pm 0.3 V	GND	500 Ω	V _{CC}	50 pF	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, $Z_O = 50 \Omega$, $t_f \leq$ 2.5 ns, $t_f \leq$ 2.5 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. tpLH and tpHL are the same as tpd(s). The tpd propagation delay is the calculated RC time constant of the typical ON-state resistance of the switch and the specified load capacitance, when driven by an ideal voltage source (zero output impedance).
- H. All parameters and waveforms are not applicable to all devices.

Figure 3. Test Circuit and Voltage Waveforms







PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	e Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
74CB3Q3253DBQRE4	ACTIVE	SSOP/ QSOP	DBQ	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR
74CB3Q3253DBQRG4	ACTIVE	SSOP/ QSOP	DBQ	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR
74CB3Q3253DGVRE4	ACTIVE	TVSOP	DGV	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
74CB3Q3253DGVRG4	ACTIVE	TVSOP	DGV	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
74CB3Q3253RGYRG4	ACTIVE	QFN	RGY	16	1000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR
SN74CB3Q3253DBQR	ACTIVE	SSOP/ QSOP	DBQ	16	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR
SN74CB3Q3253DGVR	ACTIVE	TVSOP	DGV	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74CB3Q3253PW	ACTIVE	TSSOP	PW	16	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74CB3Q3253PWE4	ACTIVE	TSSOP	PW	16	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74CB3Q3253PWG4	ACTIVE	TSSOP	PW	16	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74CB3Q3253PWR	ACTIVE	TSSOP	PW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74CB3Q3253PWRE4	ACTIVE	TSSOP	PW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74CB3Q3253PWRG4	ACTIVE	TSSOP	PW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74CB3Q3253RGYR	ACTIVE	QFN	RGY	16	1000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR

⁽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.

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.

Important Information and Disclaimer: The information provided on this page represents TI's knowledge and belief as of the date that it is

⁽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.



PACKAGE OPTION ADDENDUM

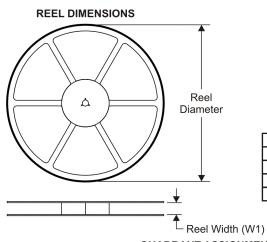
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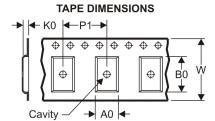
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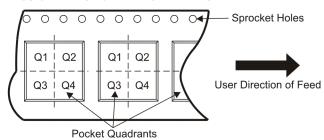
TAPE AND REEL INFORMATION





	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
SN74CB3Q3253DGVR	TVSOP	DGV	16	2000	330.0	12.4	6.8	4.0	1.6	8.0	12.0	Q1
SN74CB3Q3253PWR	TSSOP	PW	16	2000	330.0	12.4	7.0	5.6	1.6	8.0	12.0	Q1
SN74CB3Q3253RGYR	QFN	RGY	16	1000	180.0	12.4	3.8	4.3	1.5	8.0	12.0	Q1





*All dimensions are nominal

7 til dillionolorio aro nominal							
Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74CB3Q3253DGVR	TVSOP	DGV	16	2000	346.0	346.0	29.0
SN74CB3Q3253PWR	TSSOP	PW	16	2000	346.0	346.0	29.0
SN74CB3Q3253RGYR	QFN	RGY	16	1000	190.5	212.7	31.8

PW (R-PDSO-G**)

14 PINS SHOWN

PLASTIC SMALL-OUTLINE PACKAGE

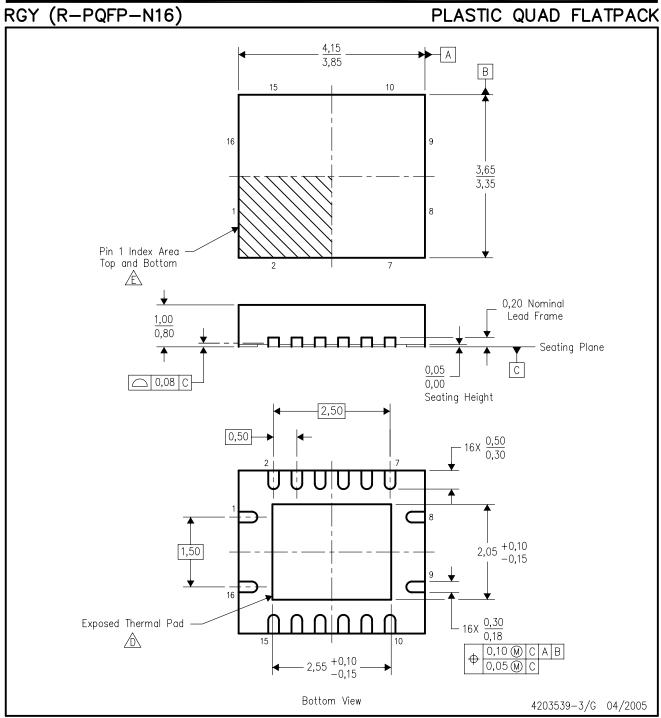


NOTES: A. All linear dimensions are in millimeters.

B. This drawing is subject to change without notice.

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

D. Falls within JEDEC MO-153



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. QFN (Quad Flatpack No-Lead) package configuration.
- The package thermal pad must be soldered to the board for thermal and mechanical performance.
- Pin 1 identifiers are located on both top and bottom of the package and within the zone indicated. The Pin 1 identifiers are either a molded, marked, or metal feature.
- F. Package complies to JEDEC MO-241 variation BB.



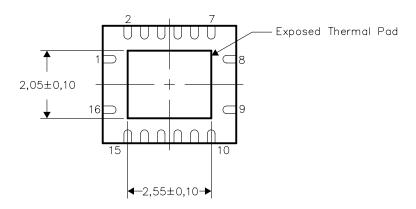
THERMAL PAD MECHANICAL DATA RGY (R-PQFP-N16)

THERMAL INFORMATION

This package incorporates an exposed thermal pad that is designed to be attached directly to an external heatsink. The thermal pad must be soldered directly to the printed circuit board (PCB). After soldering, the PCB can be used as a heatsink. In addition, through the use of thermal vias, the thermal pad can be attached directly to the appropriate copper plane shown in the electrical schematic for the device, or alternatively, can be attached to a special heatsink structure designed into the PCB. This design optimizes the heat transfer from the integrated circuit (IC).

For information on the Quad Flatpack No—Lead (QFN) package and its advantages, refer to Application Report, Quad Flatpack No—Lead Logic Packages, Texas Instruments Literature No. SCBA017. This document is available at www.ti.com.

The exposed thermal pad dimensions for this package are shown in the following illustration.

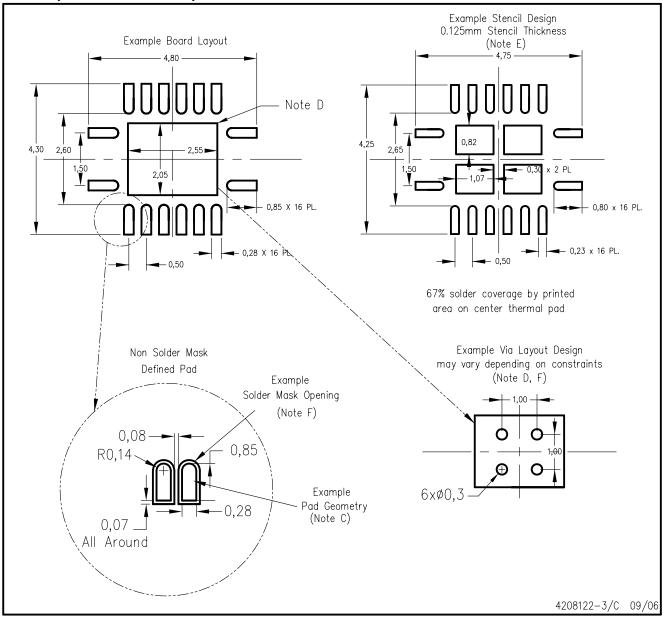


Bottom View

NOTE: All linear dimensions are in millimeters

Exposed Thermal Pad Dimensions

RGY (R-PQFP-N16)



NOTES:

- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Publication IPC-7351 is recommended for alternate designs.
- D. This package is designed to be soldered to a thermal pad on the board. Refer to Application Note, Quad Flat—Pack Packages, Texas Instruments Literature No. SCBA017, SLUA271, and also the Product Data Sheets for specific thermal information, via requirements, and recommended board layout. These documents are available at www.ti.com https://www.ti.com.
- E. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC 7525 for stencil design considerations.
- F. Customers should contact their board fabrication site for minimum solder mask web tolerances between signal pads.



DGV (R-PDSO-G**)

24 PINS SHOWN

PLASTIC SMALL-OUTLINE



NOTES: A. All linear dimensions are in millimeters.

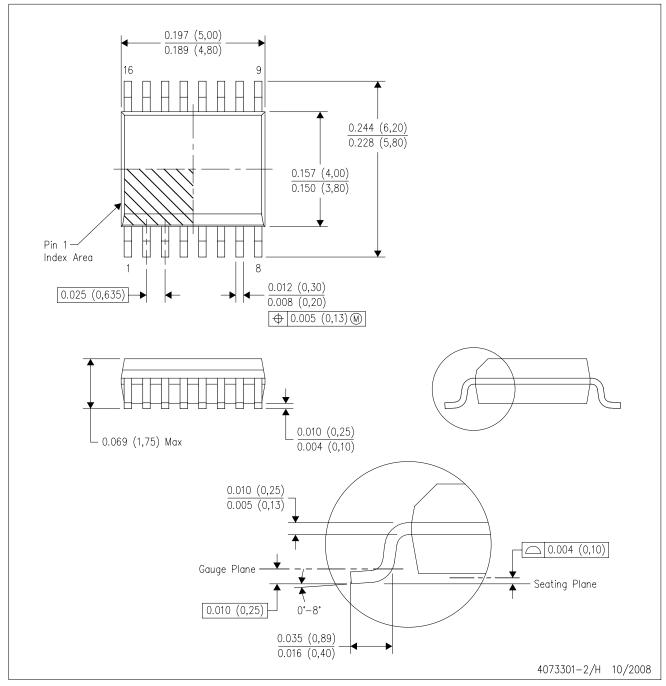
B. This drawing is subject to change without notice.

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

DBQ (R-PDSO-G16)

PLASTIC SMALL-OUTLINE PACKAGE



NOTES:

- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion not to exceed 0.006 (0,15) per side.
- D. Falls within JEDEC MO-137 variation AB.



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