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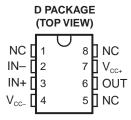
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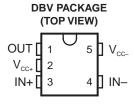
FEATURES

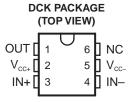
- Parameters Specified at 2.7-V, 5-V, and 15-V Supplies
- Supply Current 7 μA (Typ) at 5 V
- Response Time 4 μs (Typ) at 5 V
- Push-Pull Output
- Input Common-Mode Range Beyond V_{CC} and V_{CC+}
- Low Input Current

APPLICATIONS

- Battery-Powered Products
- Notebooks and PDAs
- Mobile Communications
- Alarm and Security Circuits
- Direct Sensor Interface
- Replaces Amplifiers Used as Comparators With Better Performance and Lower Current







NC - No internal connection

DESCRIPTION/ORDERING INFORMATION

The TLV7211 and TLV7211A are micropower CMOS comparators available in the space-saving SOT-23-5 package. This makes the comparators ideal for space- and weight-critical designs. The TLV7211A features an input offset voltage of 5 mV, and the TLV7211 features an input offset voltage of 15 mV.

The main benefits of the SOT-23-5 package are most apparent in small portable electronic devices, such as mobile phones, pagers, notebook computers, personal digital assistants, and PCMCIA cards. The rail-to-rail input voltage makes the TLV7211 or TLV7211A a good choice for sensor interfacing, such as light detector circuits, optical and magnetic sensors, and alarm and status circuits.

The SOT-23-5 package's small size allows it to fit into tight spaces on PC boards.

ORDERING INFORMATION

T _A	V _{OS} (MAX)	PACKAGE ⁽¹⁾		ORDERABLE PART NUMBER	TOP-SIDE MARKING ⁽²⁾
		SOIC - D	Reel of 2500	TLV7211AIDR	7211AI
		30IC - D	Tube of 75	TLV7211AID	/211AI
	5 mV	SOT-23-5 – DBV	Reel of 3000	TLV7211AIDBVR	YBN_
		SOT (SC-70) – DCK	Reel of 3000	TLV7211AIDCKR	V0
-40°C to 85°C			Reel of 250	TLV7211AIDCKT	- Y8_
-40°C 10 65°C		SOIC - D	Reel of 2500	TLV7211IDR	TY7211
		201C - D	Tube of 75	TLV7211ID	117211
	15 mV	SOT-23-5 – DBV	Reel of 3000	TLV7211IDBVR	YBK_
		COT (CC 70) DCK	Reel of 3000	TLV7211IDCKR	V7
		SOT (SC-70) – DCK	Reel of 250	TLV7211IDCKT	Y7_

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

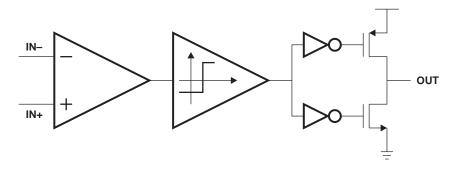


Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

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



FUNCTIONAL BLOCK DIAGRAM



Absolute Maximum Ratings(1)

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

			MIN	MAX	UNIT
$V_{CC+} - V_{CC-}$	Supply voltage ⁽²⁾			16	V
V _{ID}	Differential input voltage ⁽³⁾			±Supply voltage	V
VI	Input voltage range (any input)		V _{CC} 0.3	$V_{CC+} + 0.3$	V
Vo	Output voltage range		$V_{CC-} - 0.3$	$V_{CC+} + 0.3$	V
I _{CC}	Supply current			40	mA
I _I	Input current			±5	mA
Io	Output current			±30	mA
		D package		97	
θ_{JA}	Package thermal impedance (4)(5)	DBV package		206	°C/W
		DCK package		259	
TJ	Operating virtual junction temperature			150	°C
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) All voltage values (except differential voltages and V_{CC} specified for the measurement of I_{OS}) are with respect to the network GND.
- (3) Differential voltages are at IN+ with respect to IN-.
- (4) Maximum power dissipation is a function of T_J(max), θ_{JA}, and T_A. The maximum allowable power dissipation at any allowable ambient temperature is P_D = (T_J(max) T_A)/θ_{JA}. Operating at the absolute maximum T_J of 150°C can affect reliability.
- 5) The package thermal impedance is calculated in accordance with JESD 51-7.

ESD Protection

	TYP	UNIT
Human-Body Model	2000	V

Recommended Operating Conditions

		MIN	MAX	UNIT
$V_{CC+} - V_{CC-}$	Supply voltage	2.7	15	V
T _J	Operating virtual junction temperature	-40	85	°C

TLV7211, TLV7211A CMOS COMPARATORS WITH RAIL-TO-RAIL INPUT AND PUSH-PULL OUTPUT

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2.7-V Electrical Characteristics

 $\rm V_{CC+} = 2.7~V,~V_{CC-} = GND,~V_{CM} = V_O = V_{CC+}/2,~and~R_L > 1~M\Omega~(unless~otherwise~noted)$

	DADAMETED	TEST COMPITIONS	-	TI	_V7211 <i>A</i>	١.	Т	LV7211		LINUT	
	PARAMETER	TEST CONDITIONS	TJ	MIN	TYP	MAX	MIN	TYP	MAX	UNIT	
V	Innut offeet veltere		25°C		3	5		3	15	mV	
V _{OS}	Input offset voltage		–40°C to 85°C			8			18	mv	
TCV _{OS}	Input offset voltage temperature drift		25°C		1			1		μV/°C	
	Input offset voltage average drift ⁽¹⁾		25°C		3.3			3.3		$\mu\text{V/month}$	
I _B	Input current		25°C		0.04			0.04		pA	
Ios	Input offset current		25°C		0.02			0.02		pA	
CMRR	Common-mode rejection ratio	$0 \le V_{CM} \le 2.7 \text{ V}$	25°C		75			75		dB	
PSRR	Power-supply rejection ratio	2.7 V ≤ V _{CC+} ≤ 15 V	25°C		80			80		dB	
A _V	Voltage gain		25°C		100			100		dB	
		CMDD > 55 dD	25°C	2.9	3		2.9	3			
CMVR	Input common-mode	CMRR > 55 dB	–40°C to 85°C	2.7	·		2.7			V	
CIVIVK	voltage range	CMRR > 55 dB	25°C		-0.3	-0.2		-0.3	-0.2		
		CIVIRR > 55 UB	–40°C to 85°C		·	0			0		
V	High-level output	I _{load} = 2.5 mA	25°C	2.4	2.5		2.4	2.5		V	
V _{OH}	voltage	I _{load} = 2.5 IIIA	–40°C to 85°C	2.3			2.3			V	
V	Low-level output	1 - 2.5 mA	25°C		0.2	0.3		0.2	0.3	V	
V_{OL}	voltage	$I_{load} = 2.5 \text{ mA}$	–40°C to 85°C		·	0.4			0.4	V	
		V -10W	25°C		7	12		7	12		
1	Supply current	V _{OUT} = Low	-40°C to 85°C			14			14	^	
I _{CC}	Supply current		25°C		5	10		5	10	μΑ	
		V _{OUT} = High-Idle	-40°C to 85°C		•	12			12		

⁽¹⁾ Input offset voltage average drift is calculated by dividing the accelerated operating life V_{OS} drift by the equivalent operational time. This represents worst-case input conditions and includes the first 30 days of drift.

TLV7211, TLV7211A CMOS COMPARATORS WITH RAIL-TO-RAIL INPUT AND PUSH-PULL OUTPUT

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5-V Electrical Characteristics

 $\rm V_{CC+}$ = 5 V, $\rm V_{CC-}$ = GND, $\rm V_{CM}$ = V $_{O}$ = V $_{CC+}/2$, and R $_{L}$ > 1 M Ω (unless otherwise noted)

	DADAMETED	TEST COMPITIONS	-	Τl	_V7211 <i>A</i>	١	Т	LV7211		UNIT
	PARAMETER	TEST CONDITIONS	TJ	MIN	TYP	MAX	MIN	TYP	MAX	UNII
V	lanut offeet voltege		25°C		3	5		3	15	mV
Vos	Input offset voltage		-40°C to 85°C			8			18	IIIV
TCV _{OS}	Input offset voltage temperature drift		25°C		1			1		μV/°C
	Input offset voltage average drift ⁽¹⁾		25°C		3.3			3.3		$\mu\text{V/month}$
I _B	Input current		25°C		0.04			0.04		рА
Ios	Input offset current		25°C		0.02			0.02		рА
CMRR	Common-mode rejection ratio		25°C		75			75		dB
PSRR	Power-supply rejection ratio	5 V ≤ V _{CC+} ≤ 10 V	25°C		80			80		dB
A _V	Voltage gain		25°C		100			100		dB
		CMDD - EE dD	25°C	5.2	5.3		5.2	5.3		
CMVR	Input common-mode	CMRR > 55 dB	-40°C to 85°C	5			5			V
CIVIVR	voltage range	CMRR > 55 dB	25°C		-0.3	-0.2		-0.3	-0.2	V
		CIVIRR > 55 UB	–40°C to 85°C		·	0			0	
V _{OH}	High-level output	I _{load} = 5 mA	25°C	4.6	4.8		4.6	4.8		V
VOH	voltage	I _{load} = 5 IIIA	–40°C to 85°C	4.45			4.45			V
V	Low-level output	5 mΛ	25°C		0.2	0.4		0.2	0.4	V
V_{OL}	voltage	I _{load} = 5 mA	-40°C to 85°C			0.55			0.55	V
		V - Low	25°C		7	14		7	14	
1	Supply current	V _{OUT} = Low	–40°C to 85°C		·	18			18	μΑ
I _{CC}	Supply current	\/	/ List Idla		5	10		5	10	μΑ
		V _{OUT} = High-Idle	–40°C to 85°C			13			13	
I _{OH}	Short-circuit output current	I _{source}	25°C	30			30			mA
I _{OL}	Short-circuit output current	I _{sink} , V _O < 12 V ⁽²⁾	25°C	45			45			mA

⁽¹⁾ Input offset voltage average drift is calculated by dividing the accelerated operating life V_{OS} drift by the equivalent operational time. This represents worst-case input conditions and includes the first 30 days of drift.

⁽²⁾ Do not short circuit the output to V+ if V+ is >12 V.

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15-V Electrical Characteristics

 $\rm V_{CC+}$ = 15 V, $\rm V_{CC-}$ = GND, $\rm V_{CM}$ = $\rm V_{O}$ = $\rm V_{CC+}/2$, and $\rm R_{L}$ > 1 M Ω (unless otherwise noted)

	PARAMETER	TEST	т	TI	_V7211 <i>A</i>	١	Т	LV7211		UNIT	
	PARAMETER	CONDITIONS	TJ	MIN	TYP	MAX	MIN	TYP	MAX	UNII	
\/	Input offeet voltage		25°C		3	5		3	15	mV	
Vos	Input offset voltage		–40°C to 85°C			8			18	IIIV	
TCV _{OS}	Input offset voltage temperature drift		25°C		4			4		μV/°C	
	Input offset voltage average drift ⁽¹⁾		25°C		4			4		$\mu\text{V/month}$	
I _B	Input current		25°C		0.04			0.04		pA	
Ios	Input offset current		25°C		0.02			0.02		pА	
CMRR	Common-mode rejection ratio		25°C		82			82		dB	
PSRR	Power-supply rejection ratio	$5 \text{ V} \leq \text{V}_{\text{CC+}} \leq 10 \text{ V}$	25°C		80			80		dB	
A_V	Voltage gain		25°C		100			100		dB	
		CMDD . EE dD	25°C	15.2	15.3		15.2	15.3			
CMVR	Input common-mode voltage	CMRR > 55 dB	-40°C to 85°C	15			15			V	
CIVIVK	range	CMRR > 55 dB	25°C		-0.3	-0.2		-0.3	-0.2	V	
		CIVIRK > 55 UB	–40°C to 85°C			0			0		
V _{OH}	High-level output voltage	I _{load} = 5 mA	25°C	14.6	14.8		14.6	14.8		V	
VOH	r ligh-level output voltage	Iload - 3 IIIA	–40°C to 85°C	14.45			14.45			V	
V _{OL}	Low-level output voltage	I _{load} = 5 mA	25°C		0.2	0.4		0.2	0.4	V	
VOL	Low-level output voltage	Iload = 5 IIIA	–40°C to 85°C			0.55			0.55	V	
		V _{OUT} = Low	25°C		7	14		7	14		
L	Supply current	VOUT - LOW	–40°C to 85°C			18			18	μΑ	
I _{CC}	Supply current	V - High Idlo	25°C		5	12		5	12	μA 	
		V _{OUT} = High-Idle	–40°C to 85°C			14			14		
I _{OH}	Short-circuit output current	I _{source}	25°C	30			30			mA	
I _{OL}	Short-circuit output current	I_{sink} , $V_O < 12 V^{(2)}$	25°C	45			45			mA	

⁽¹⁾ Input offset voltage average drift is calculated by dividing the accelerated operating life V_{OS} drift by the equivalent operational time. This represents worst-case input conditions and includes the first 30 days of drift.

⁽²⁾ Do not short circuit the output to V+ if V+ is >12 V.

TLV7211, TLV7211A **CMOS COMPARATORS** WITH RAIL-TO-RAIL INPUT AND PUSH-PULL OUTPUT



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Switching Characteristics

 $\rm T_J = 25^{\circ}C,~V_{CC+} = 5~V,~V_{CC-} = GND,~V_{CM} = V_O = V_{CC+}/2,~and~R_L > 1~M\Omega~(unless~otherwise~noted)$

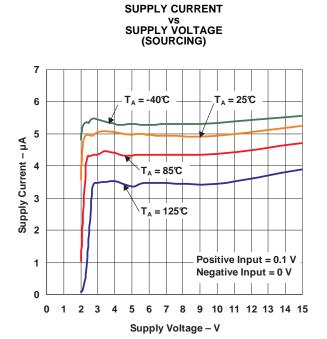
	PARAMETER	TEST CONDITIONS		TYP	UNIT
t _{rise}	Rise time	$f = 10 \text{ kHz}, C_L = 50 \text{ pF}^{(1)}, \text{ Overdrive} = 10 \text{ m}^3$	J	0.3	μs
t _{fall}	Fall time	$f = 10 \text{ kHz}, C_L = 50 \text{ pF}^{(1)}, \text{ Overdrive} = 10 \text{ m}^3$	0.3	μs	
		10 mV 1		10	
	Propagation delay time, high to low ⁽²⁾	$f = 10 \text{ kHz}, C_L = 50 \text{ pF}^{(1)}$	100 mV	4	
t _{PHL}	Propagation delay time, high to low(2)	V 07.V f 40.U.L. C 505(1)	10 mV	10	μs
		$V_{CC+} = 2.7 \text{ V, f} = 10 \text{ kHz, C}_{L} = 50 \text{ pF}^{(1)}$	100 mV	4	
		(40111- 0 50-5(1)	10 mV	6	
	Decreasion delections levels high (2)	$f = 10 \text{ kHz}, C_L = 50 \text{ pF}^{(1)}$	100 mV	4	
t _{PLH} I	Propagation delay time, low to high (2)	V 07.V f 40.U.L. C 505(1)	10 mV	7	μs
		$V_{CC+} = 2.7 \text{ V, f} = 10 \text{ kHz, } C_L = 50 \text{ pF}^{(1)}$	100 mV	4	

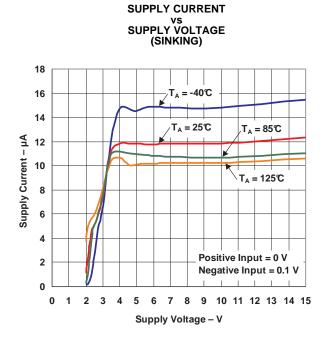
⁽¹⁾ C_L includes probe and jig capacitance.
(2) Input step voltage for propagation delay measurement is 2 V.

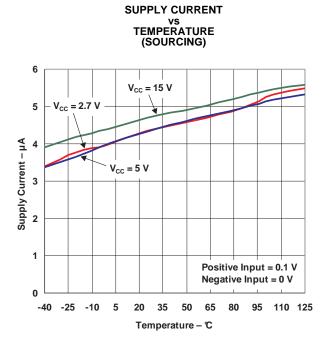


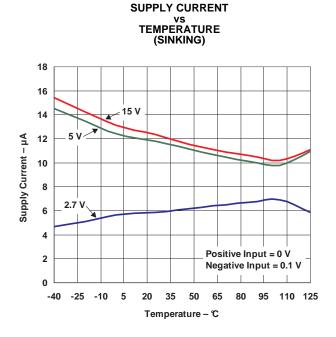
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TYPICAL CHARACTERISTICS





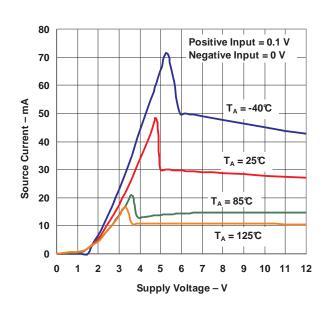




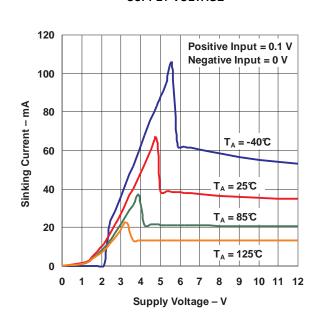


TYPICAL CHARACTERISTICS (continued)

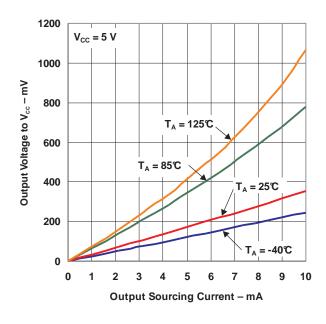
OUTPUT SOURCING CURRENT vs SUPPLY VOLTAGE



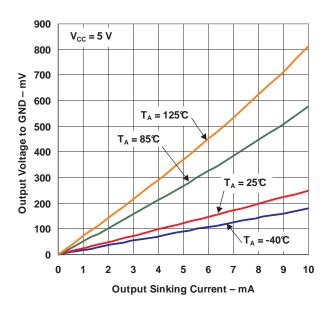
OUTPUT SINKING CURRENT VS SUPPLY VOLTAGE



OUTPUT VOLTAGE
vs
OUTPUT SOURCING CURRENT



OUTPUT VOLTAGE VS OUTPUT SINKING CURRENT

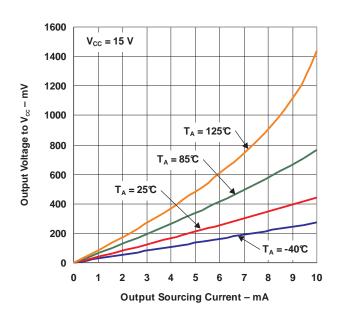




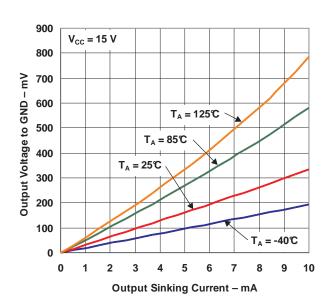
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TYPICAL CHARACTERISTICS (continued)

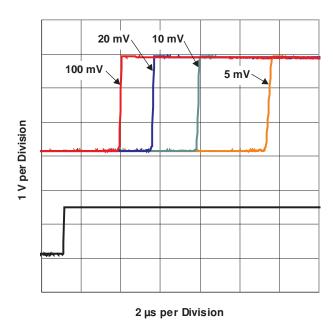




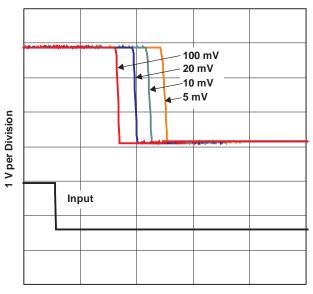
OUTPUT VOLTAGE
VS
OUTPUT SINKING CURRENT



Response Time (t_{PLH}) for Various Input Overdrives ($V_{CC} = 2.7 \text{ V}$)



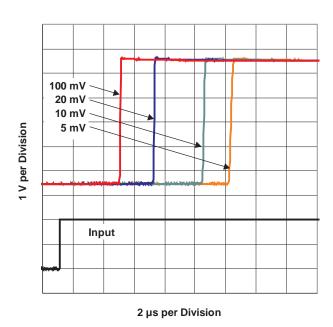
Response Time (t_{PHL}) for Various Input Overdrives (V_{CC} = 2.7 V)



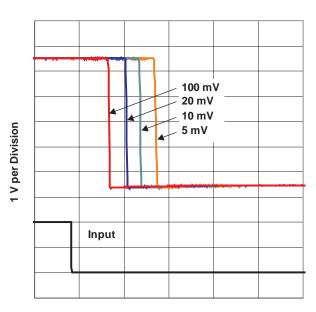


TYPICAL CHARACTERISTICS (continued)

Response Time (t_{PLH}) for Various Input Overdrives ($V_{CC} = 5 \text{ V}$)

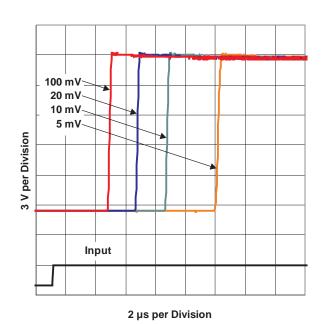


Response Time (t_{PHL}) for Various Input Overdrives $(V_{CC} = 5 \ V)$

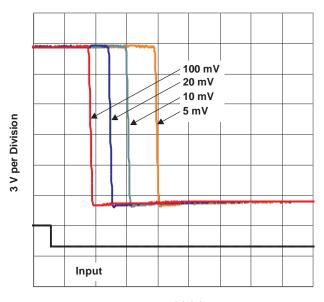


2 µs per Division

Response Time (t_{PLH}) for Various Input Overdrives (V_{CC} = 15 V)



Response Time (t_{PHL}) for Various Input Overdrives ($V_{CC} = 15 \text{ V}$)



2 µs per Division







PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	e Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
TLV7211AID	ACTIVE	SOIC	D	8	75	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TLV7211AIDBVR	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TLV7211AIDBVRG4	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TLV7211AIDCKR	ACTIVE	SC70	DCK	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TLV7211AIDCKRG4	ACTIVE	SC70	DCK	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TLV7211AIDCKT	ACTIVE	SC70	DCK	6	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TLV7211AIDCKTG4	ACTIVE	SC70	DCK	6	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TLV7211AIDG4	ACTIVE	SOIC	D	8	75	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TLV7211AIDR	ACTIVE	SOIC	D	8	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TLV7211AIDRG4	ACTIVE	SOIC	D	8	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TLV7211ID	ACTIVE	SOIC	D	8	75	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TLV7211IDBVR	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TLV7211IDBVRG4	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TLV7211IDCKR	ACTIVE	SC70	DCK	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TLV7211IDCKRG4	ACTIVE	SC70	DCK	6	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TLV7211IDCKT	ACTIVE	SC70	DCK	6	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TLV7211IDCKTG4	ACTIVE	SC70	DCK	6	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TLV7211IDG4	ACTIVE	SOIC	D	8	75	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TLV7211IDR	ACTIVE	SOIC	D	8	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
TLV7211IDRG4	ACTIVE	SOIC	D	8	2500	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

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.



PACKAGE OPTION ADDENDUM

25-Jan-2007

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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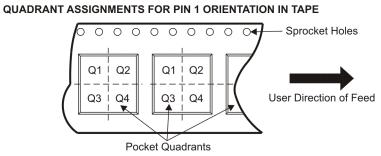
5-Dec-2008

TAPE AND REEL INFORMATION



TAPE DIMENSIONS $\Phi \Phi \Phi \Phi \Phi$ \oplus Cavity → A0 **←**

	Dimension designed to accommodate the component width
	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



*All dimensions are nominal

All difficusions are norminal												
Device	Package Type	Package Drawing			Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
TLV7211AIDBVR	SOT-23	DBV	5	3000	178.0	9.0	3.23	3.17	1.37	4.0	8.0	Q3
TLV7211AIDCKR	SC70	DCK	6	3000	180.0	8.4	2.24	2.34	1.22	4.0	8.0	Q3
TLV7211AIDCKT	SC70	DCK	6	250	180.0	8.4	2.24	2.34	1.22	4.0	8.0	Q3
TLV7211AIDR	SOIC	D	8	2500	330.0	12.4	6.4	5.2	2.1	8.0	12.0	Q1
TLV7211IDBVR	SOT-23	DBV	5	3000	178.0	9.0	3.23	3.17	1.37	4.0	8.0	Q3
TLV7211IDCKR	SC70	DCK	6	3000	180.0	8.4	2.24	2.34	1.22	4.0	8.0	Q3
TLV7211IDCKT	SC70	DCK	6	250	180.0	8.4	2.24	2.34	1.22	4.0	8.0	Q3
TLV7211IDR	SOIC	D	8	2500	330.0	12.4	6.4	5.2	2.1	8.0	12.0	Q1





*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
TLV7211AIDBVR	SOT-23	DBV	5	3000	565.0	140.0	75.0
TLV7211AIDCKR	SC70	DCK	6	3000	202.0	201.0	28.0
TLV7211AIDCKT	SC70	DCK	6	250	202.0	201.0	28.0
TLV7211AIDR	SOIC	D	8	2500	340.5	338.1	20.6
TLV7211IDBVR	SOT-23	DBV	5	3000	565.0	140.0	75.0
TLV7211IDCKR	SC70	DCK	6	3000	202.0	201.0	28.0
TLV7211IDCKT	SC70	DCK	6	250	202.0	201.0	28.0
TLV7211IDR	SOIC	D	8	2500	340.5	338.1	20.6

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.



D (R-PDSO-G8)

PLASTIC SMALL-OUTLINE PACKAGE



NOTES:

- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed .006 (0,15) per end.
- Body width does not include interlead flash. Interlead flash shall not exceed .017 (0,43) per side.
- E. Reference JEDEC MS-012 variation AA.



DCK (R-PDSO-G6)

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 AB.



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