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- 15-V Digital or ±7.5-V Peak-to-Peak Switching
- 125-Ω Typical On-State Resistance for 15-V Operation
- Switch On-State Resistance Matched to Within 5 Ω Over 15-V Signal-Input Range
- On-State Resistance Flat Over Full Peak-to-Peak Signal Range
- High On/Off Output-Voltage Ratio: 80 dB Typical at f_{is} = 10 kHz, R_L = 1 kΩ
- High Degree of Linearity: <0.5% Distortion Typical at $f_{is} = 1 \text{ kHz}$, $V_{is} = 5 \text{ V p-p}$, $V_{DD} - V_{SS} \ge 10 \text{ V}$, $R_L = 10 \text{ k}\Omega$
- Extremely Low Off-State Switch Leakage, Resulting in Very Low Offset Current and High Effective Off-State Resistance: 10 pA Typical at V_{DD} – V_{SS} = 10 V, T_A = 25°C
- Extremely High Control Input Impedance (Control Circuit Isolated From Signal Circuit): 10¹² Ω Typical
- Low Crosstalk Between Switches: -50 dB Typical at f_{is} = 8 MHz, R_L = 1 kΩ

- Matched Control-Input to Signal-Output Capacitance: Reduces Output Signal Transients
- Frequency Response, Switch On = 40 MHz Typical
- 100% Tested for Quiescent Current at 20 V
- 5-V, 10-V, and 15-V Parametric Ratings
- Meets All Requirements of JEDEC Tentative Standard No. 13-B, Standard Specifications for Description of "B" Series CMOS Devices
- Applications:
 - Analog Signal Switching/Multiplexing: Signal Gating, Modulator, Squelch Control, Demodulator, Chopper, Commutating Switch
 - Digital Signal Switching/Multiplexing
 - Transmission-Gate Logic Implementation
 - Analog-to-Digital and Digital-to-Analog Conversion
 - Digital Control of Frequency, Impedance, Phase, and Analog-Signal Gain

E, F, M, NS, OR PW PACKAGE (TOP VIEW)								
SIG A IN/OUT [1	14] V _{DD}					
SIG A OUT/IN [2	13] CONTROL A					
SIG B OUT/IN [3	12] CONTROL D					
SIG B IN/OUT [4	11] SIG D IN/OUT					
CONTROL B [5	10] SIG D OUT/IN					
CONTROL C [6	9] SIG C OUT/IN					
V _{SS} [7	8] SIG C IN/OUT					

description/ordering information

The CD4066B is a quad bilateral switch intended for the transmission or multiplexing of analog or digital signals. It is pin-for-pin compatible with the CD4016B, but exhibits a much lower on-state resistance. In addition, the on-state resistance is relatively constant over the full signal-input range.

The CD4066B consists of four bilateral switches, each with independent controls. Both the p and the n devices in a given switch are biased on or off simultaneously by the control signal. As shown in Figure 1, the well of the n-channel device on each switch is tied to either the input (when the switch is on) or to V_{SS} (when the switch is off). This configuration eliminates the variation of the switch-transistor threshold voltage with input signal and, thus, keeps the on-state resistance low over the full operating-signal range.

The advantages over single-channel switches include peak input-signal voltage swings equal to the full supply voltage and more constant on-state impedance over the input-signal range. However, for sample-and-hold applications, the CD4016B is recommended.



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.

PRODUCTION DATA information is current as of publication date. Products conform to specifications per the terms of Texas Instruments standard warranty. Production processing does not necessarily include testing of all parameters.



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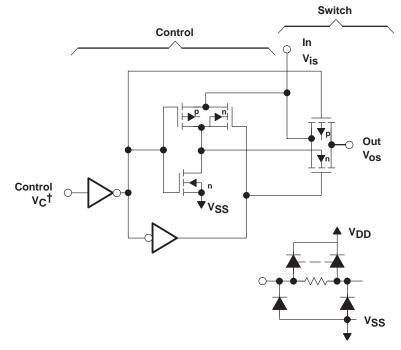
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description/ordering information (continued)

TA	PACK	AGET	ORDERABLE PART NUMBER	TOP-SIDE MARKING
	CDIP – F	Tube of 25	CD4066BF3A	CD4066BF3A
	PDIP – E	Tube of 25	CD4066BE	CD4066BE
		Tube of 50	CD4066BM	
–55°C to 125°C	SOIC – M	Reel of 2500	CD4066BM96	CD4066BM
-55 C 10 125 C		Reel of 250	CD4066BMT	
	SOP – NS	Reel of 2000	CD4066BNSR	CD4066B
	TSSOP – PW	Tube of 90	CD4066BPW	CM066B
	1330F - FW	Reel of 2000	CD4066BPWR	CIVIO00B

ORDERING INFORMATION

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



[†] All control inputs are protected by the CMOS protection network.

- NOTES: A. All p substrates are connected to V_{DD}. B. Normal operation control-line biasing: switch on (logic 1), V_C = V_{DD}; switch off (logic 0), V_C = V_{SS} C. Signal-level range: $V_{SS} \le V_{DD}$

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Figure 1. Schematic Diagram of One-of-Four Identical Switches and Associated Control Circuitry



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absolute maximum ratings over operating free-air temperature (unless otherwise noted)[†]

DC supply-voltage range, V _{DD} (voltages ref	erenced to Vss terminal)	
Input voltage range, V _{is} (all inputs)	00	
DC input current, I _{IN} (any one input)		
Package thermal impedance, θ_{JA} (see Note		
	NS package	
	PW package	113°C/W
Lead temperature (during soldering):		
At distance $1/16 \pm 1/32$ inch $(1,59 \pm 0,79)$	9 mm) from case for 10 s n	nax 265°C
Storage temperature range, T _{stg}		–65°C to 150°C
		the device of the second states and the second states and

[†] 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.

NOTE 1: The package thermal impedance is calculated in accordance with JESD 51-7.

recommended operating conditions

		MIN	MAX	UNIT
VDD	Supply voltage	3	18	V
Т _А	Operating free-air temperature	-55	125	°C



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electrical characteristics

					LIN	NITS AT II	NDICATE	D TEMPE	RATURE	S	
	PARAMETER	TEST CONDITIONS	VIN	VDD	5500	4000	0500	40500	25	°C	UNIT
			(V)	(V)	–55°C	–40°C	85°C	125°C	TYP	MAX	
			0, 5	5	0.25	0.25	7.5	7.5	0.01	0.25	
1	Quiescent device		0, 10	10	0.5	0.5	15	15	0.01	0.5	
IDD	current		0, 15	15	1	1	30	30	0.01	1	μA
			0, 20	20	5	5	150	150	0.02	5	
Signal	Inputs (Vis) and Output	uts (V _{OS})					-				
		$V_{C} = V_{DD},$ R _L = 10 k Ω returned		5	800	850	1200	1300	470	1050	
r _{on}	On-state resistance (max)	to $\frac{(V_{DD} - V_{SS})}{2}$,		10	310	330	500	550	180	400	Ω
		$V_{is} = V_{SS}$ to V_{DD}		15	200	210	300	320	125	240	
	On-state resistance			5					15		
Δr_{on}				10					10		Ω
	any two switches			15					5		
THD	Total harmonic distortion	$ \begin{array}{l} V_C = V_{DD} = 5 \ \text{V}, \ \text{V}_{SS} = -5 \\ V_{is(p\text{-}p)} = 5 \ \text{V} \ (\text{sine wave ce} \\ R_L = 10 \ \text{k}\Omega, \ f_{iS} = 1\text{-}\text{kHz sine} \end{array} $	entered o	n 0 V),					0.4		%
	–3-dB cutoff frequency (switch on)	$V_{C} = V_{DD} = 5 V$, $V_{SS} = -5 V$ (sine wave centered on 0 V	/, V _{is(p-p} /), R _L = 1	o) = 5 V kΩ					40		MHz
	–50-dB feedthrough frequency (switch off)	$V_{C} = V_{SS} = -5 \text{ V}, V_{is(p-p)} = (sine wave centered on 0 \text{ V})$	= 5 V), R _L = 1	kΩ					1		MHz
l _{is}	Input/output leakage current (switch off) (max)	$V_{C} = 0 V, V_{iS} = 18 V, V_{OS} =$ and $V_{C} = 0 V, V_{iS} = 0 V, V_{OS} = 1$		18	±0.1	±0.1	±1	±1	±10-5	±0.1	μΑ
	–50-dB crosstalk frequency	$ \begin{array}{l} V_{C}(A) = V_{DD} = 5 \ V, \\ V_{C}(B) = V_{SS} = -5 \ V, \\ V_{is}(A) = 5 \ V_{p\text{-}p}, \ 50\text{-}\Omega \ \text{source} \\ R_{L} = 1 \ k\Omega \end{array} $	ce,						8		MHz
	Propagation delay	$ R_L = 200 \text{ k}\Omega, \text{ V}_C = \text{V}_{DD}, \\ V_{SS} = \text{GND}, \text{ C}_L = 50 \text{ pF}, $		5					20	40	
^t pd			5 \/)	10					10	20	ns
	ອາຊາາລາ ບັນເປັນເ	t_r , $t_f = 20$ ns	,.	15					7	15	
Cis	Input capacitance	$V_{DD} = 5 V, V_{C} = V_{SS} = -5$							8		pF
C_{OS}	Output capacitance	$V_{DD} = 5 V, V_C = V_{SS} = -5$	V						8		pF
Cios	Feedthrough	$V_{DD} = 5 V$, $V_C = V_{SS} = -5$	V						0.5		pF



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				LIN	NITS AT I	NDICATE	D TEMPE	RATURE	S	
C	HARACTERISTIC	TEST CONDITIONS	V _{DD}				40500	25	°C	UNIT
			(V)	–55°C	-40°C	85°C	125°C	TYP	MAX	
Contro	ol (VC)									
	Operational	l _{is} < 10 μΑ,	5	1	1	1	1		1	
VILC	Control input, low voltage (max)	$V_{is} = V_{SS}, V_{OS} = V_{DD}$, and	10	2	2	2	2		2	V
	low voltage (max)	$V_{is} = V_{DD}, V_{OS} = V_{SS}$	15	2	2	2	2		2	
VIHC	Control input, high voltage	See Figure 6	10	7 (MIN)						V
	nigh voltage	_	15			11 (N	/IN)			
IIN	Input current (max)	$V_{is} \leq V_{DD}, V_{DD} - V_{SS} = 18 \text{ V},$ $V_{CC} \leq V_{DD} - V_{SS}$	18	±0.1	±0.1	±1	±1	±10-5	±0.1	μA
	Crosstalk (control input to signal output)	V_{C} = 10 V (square wave), t _r , t _f = 20 ns, R _L = 10 k Ω	10					50		mV
			5					35	70	
	Turn-on and turn-off propagation delay	$V_{IN} = V_{DD}$, t_r , $t_f = 20$ ns, $C_I = 50$ pF, $R_I = 1 k\Omega$	10					20	40	ns
	propagation delay	$O_{L} = 50 \text{ pr}, \text{ K}_{L} = 1 \text{ Ksz}$	15					15	30	
		$V_{is} = V_{DD}, V_{SS} = GND,$ RL = 1 k Ω to GND, CL = 50 pF,	5					6		MHz
	Maximum control input repetition rate	$V_C = 10 V$ (square wave centered on 5 V), t_f , $t_f = 20 \text{ ns}$,	10					9		
		$V_{OS} = 1/2 V_{OS}$ at 1 kHz	15					9.5		
CI	Input capacitance							5	7.5	pF

electrical characteristics (continued)

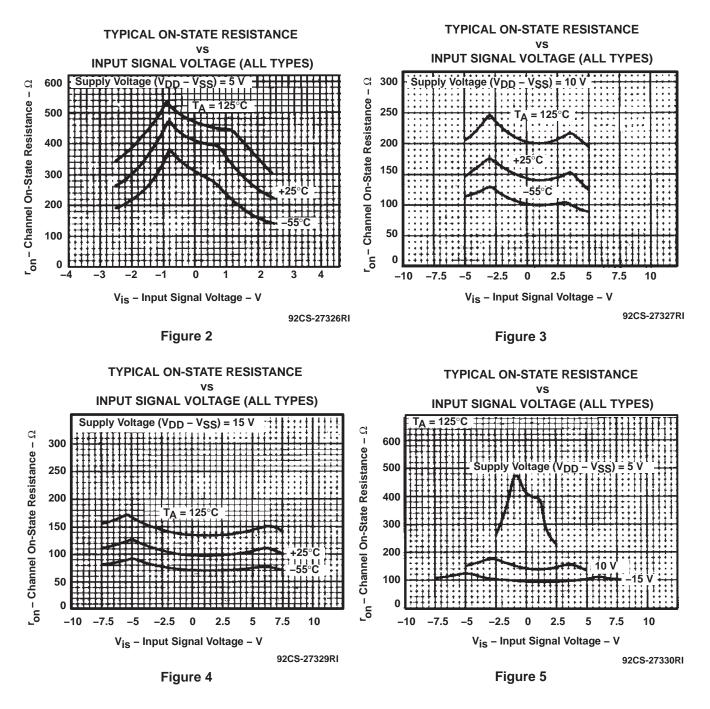
switching characteristics

		SWIT						
V _{DD} (V)	V _{is}			OUTPUT, V _{OS} (V)				
	(V)	–55°C	–40°C	25°C	85°C	125°C	MIN	MAX
5	0	0.64	0.61	0.51	0.42	0.36		0.4
5	5	-0.64	-0.61	-0.51	-0.42	-0.36	4.6	
10	0	1.6	1.5	1.3	1.1	0.9		0.5
10	10	-1.6	-1.5	-1.3	-1.1	-0.9	9.5	
15	0	4.2	4	3.4	2.8	2.4		1.5
15	15	-4.2	-4	-3.4	-2.8	-2.4	13.5	



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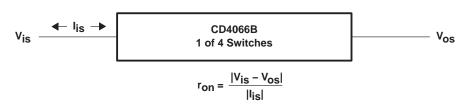
TYPICAL CHARACTERISTICS



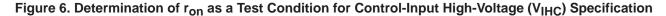


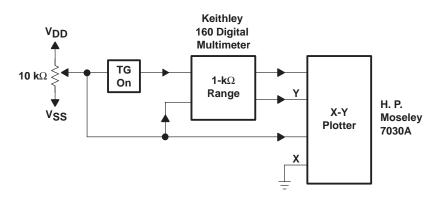
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TYPICAL CHARACTERISTICS



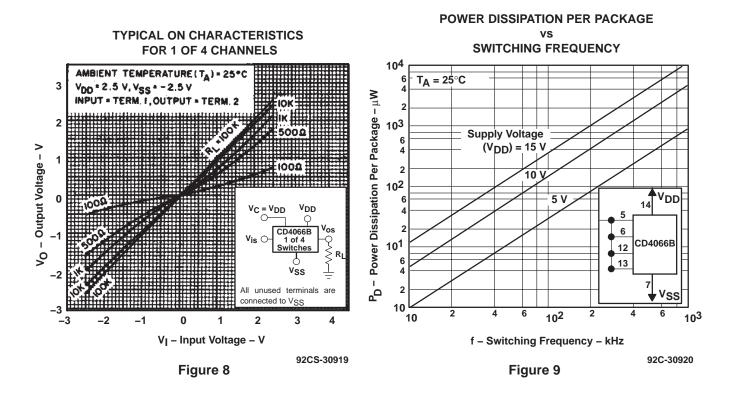
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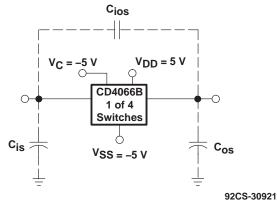
Figure 7. Channel On-State Resistance Measurement Circuit





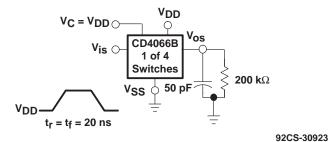
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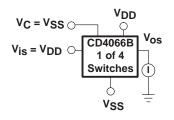
TYPICAL CHARACTERISTICS



Measured on Boonton capacitance bridge, model 75a (1 MHz); test-fixture capacitance nulled out.

Figure 10. Typical On Characteristics for One of Four Channels

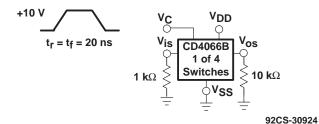




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All unused terminals are connected to VSS.

Figure 11. Off-Switch Input or Output Leakage



All unused terminals are connected to VSS.

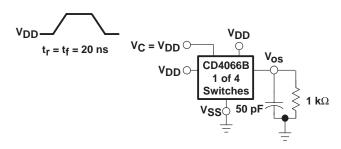
Figure 12. Propagation Delay Time Signal Input (V_{is}) to Signal Output (V_{os})

All unused terminals are connected to $\mathsf{V}_{\ensuremath{\mathsf{SS}}}.$

Figure 13. Crosstalk-Control Input to Signal Output

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TYPICAL CHARACTERISTICS

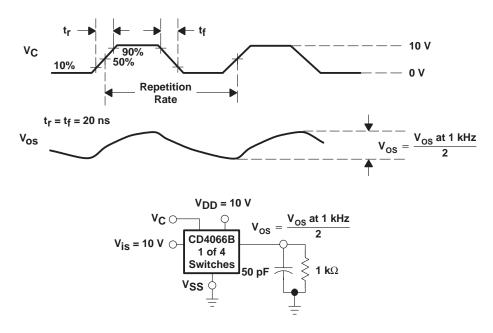


NOTES: A. All unused terminals are connected to V_{SS} .

B. Delay is measured at V_{OS} level of +10% from ground (turn-on) or on-state output level (turn-off).

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Figure 14. Propagation Delay, tPLH, tPHL Control-Signal Output



All unused terminals are connected to VSS.

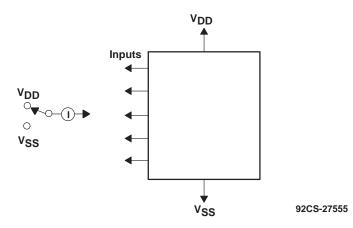
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Figure 15. Maximum Allowable Control-Input Repetition Rate



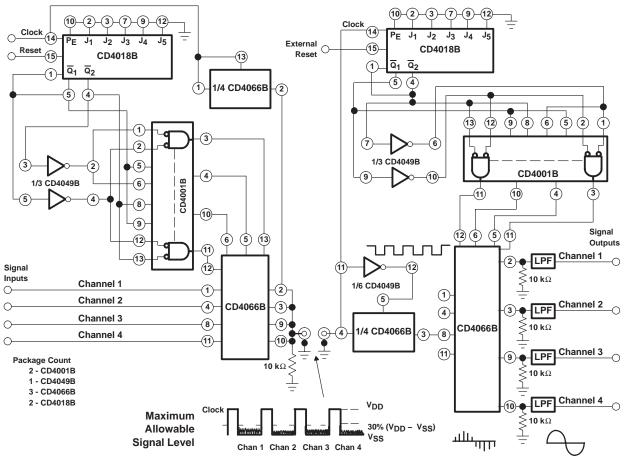
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Measure inputs sequentially to both VDD and VSS. Connect all unused inputs to either VDD or VSS. Measure control inputs only.

Figure 16. Input Leakage-Current Test Circuit

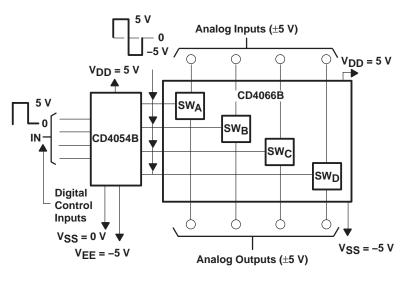


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TYPICAL CHARACTERISTICS

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Figure 18. Bidirectional Signal Transmission Via Digital Control Logic



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APPLICATION INFORMATION

In applications that employ separate power sources to drive V_{DD} and the signal inputs, the V_{DD} current capability should exceed V_{DD}/R_L (R_L = effective external load of the four CD4066B bilateral switches). This provision avoids any permanent current flow or clamp action on the V_{DD} supply when power is applied or removed from the CD4066B.

In certain applications, the external load-resistor current can include both V_{DD} and signal-line components. To avoid drawing V_{DD} current when switch current flows into terminals 1, 4, 8, or 11, the voltage drop across the bidirectional switch must not exceed 0.8 V (calculated from r_{on} values shown).

No V_{DD} current will flow through R_L if the switch current flows into terminals 2, 3, 9, or 10.





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PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	Eco Plan ⁽²⁾	Lead/ Ball Finish	MSL Peak Temp ⁽³⁾	Samples (Requires Login)
CD4066BE	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	Contact TI Distributor or Sales Office
CD4066BEE4	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	Contact TI Distributor or Sales Office
CD4066BF	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	Purchase Samples
CD4066BF3A	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	Purchase Samples
CD4066BF3AS2283	OBSOLETE	CDIP	J	14		TBD	Call TI	Call TI	Samples Not Available
CD4066BF3AS2534	OBSOLETE	CDIP	J	14		TBD	Call TI	Call TI	Samples Not Available
CD4066BM	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Purchase Samples
CD4066BM96	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Contact TI Distributor or Sales Office
CD4066BM96E4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Contact TI Distributor or Sales Office
CD4066BM96G4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Contact TI Distributor or Sales Office
CD4066BME4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Purchase Samples
CD4066BMG4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Purchase Samples
CD4066BMT	ACTIVE	SOIC	D	14	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Purchase Samples
CD4066BMTE4	ACTIVE	SOIC	D	14	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Purchase Samples
CD4066BMTG4	ACTIVE	SOIC	D	14	250	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Purchase Samples
CD4066BNSR	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Contact TI Distributor or Sales Office
CD4066BNSRE4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Contact TI Distributor or Sales Office
CD4066BNSRG4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Contact TI Distributor or Sales Office



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Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	Eco Plan ⁽²⁾	Lead/ Ball Finish	MSL Peak Temp ⁽³⁾	Samples (Requires Login)
CD4066BPW	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Purchase Samples
CD4066BPWE4	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Purchase Samples
CD4066BPWG4	ACTIVE	TSSOP	PW	14	90	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Purchase Samples
CD4066BPWR	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Contact TI Distributo or Sales Office
CD4066BPWRE4	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Contact TI Distributo or Sales Office
CD4066BPWRG4	ACTIVE	TSSOP	PW	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	Contact TI Distributo or Sales Office
JM38510/05852BCA	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	Purchase 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) 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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In no event shall TI's liability arising out of such information exceed the total purchase price of the TI part(s) at issue in this document sold by TI to Customer on an annual basis.

OTHER QUALIFIED VERSIONS OF CD4066B, CD4066B-MIL :

Catalog: CD4066B

• Military: CD4066B-MIL

NOTE: Qualified Version Definitions:

- Catalog TI's standard catalog product
- Military QML certified for Military and Defense Applications

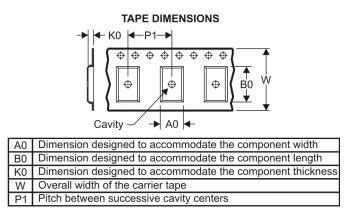
PACKAGE MATERIALS INFORMATION

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TAPE AND REEL INFORMATION





QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



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
CD4066BM96	SOIC	D	14	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
CD4066BM96	SOIC	D	14	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
CD4066BMT	SOIC	D	14	250	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
CD4066BNSR	SO	NS	14	2000	330.0	16.4	8.2	10.5	2.5	12.0	16.0	Q1
CD4066BPWR	TSSOP	PW	14	2000	330.0	12.4	6.9	5.6	1.6	8.0	12.0	Q1

TEXAS INSTRUMENTS

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PACKAGE MATERIALS INFORMATION

6-Aug-2010



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
CD4066BM96	SOIC	D	14	2500	346.0	346.0	33.0
CD4066BM96	SOIC	D	14	2500	333.2	345.9	28.6
CD4066BMT	SOIC	D	14	250	346.0	346.0	33.0
CD4066BNSR	SO	NS	14	2000	346.0	346.0	33.0
CD4066BPWR	TSSOP	PW	14	2000	346.0	346.0	29.0

J (R-GDIP-T**) 14 LEADS SHOWN

CERAMIC DUAL IN-LINE PACKAGE



NOTES: A. All linear dimensions are in inches (millimeters).

- B. This drawing is subject to change without notice.
- C. This package is hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only on press ceramic glass frit seal only.
- E. Falls within MIL STD 1835 GDIP1-T14, GDIP1-T16, GDIP1-T18 and GDIP1-T20.

N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



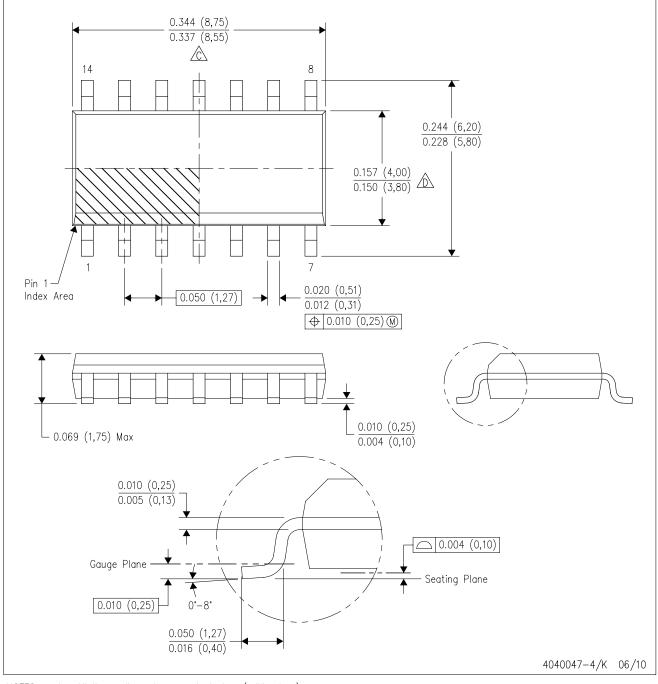
NOTES:

- A. All linear dimensions are in inches (millimeters).B. This drawing is subject to change without notice.
- Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
- \triangle The 20 pin end lead shoulder width is a vendor option, either half or full width.



D (R-PDSO-G14)

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 AB.



MECHANICAL DATA

PLASTIC SMALL-OUTLINE PACKAGE

0,51 0,35 ⊕0,25⊛ 1,27 8 14 0,15 NOM 5,60 8,20 5,00 7,40 \bigcirc Gage Plane ₽ 0,25 7 1 1,05 0,55 0-10 Δ 0,15 0,05 Seating Plane — 2,00 MAX 0,10PINS ** 14 16 20 24 DIM 10,50 10,50 12,90 15,30 A MAX A MIN 9,90 9,90 12,30 14,70 4040062/C 03/03

NOTES: A. All linear dimensions are in millimeters.

NS (R-PDSO-G**)

14-PINS SHOWN

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion, not to exceed 0,15.



MECHANICAL DATA

MTSS001C - JANUARY 1995 - REVISED FEBRUARY 1999

PW (R-PDSO-G**)

PLASTIC SMALL-OUTLINE PACKAGE

14 PINS SHOWN



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



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