

DUAL NON-INVERTING POWER DRIVER

FEATURES

- 3.0A Peak Current Totem Pole Output
- 5 to 35V Operation
- 25ns Rise and Fall Times
- 25ns Propagation Delays
- Thermal Shutdown and Under-Voltage Protection

- High-Speed, Power MOSFET Compatible
- Efficient High Frequency Operation
- Low Cross-Conduction Current Spike
- Enable and Shutdown Functions
- Wide Input Voltage Range
- ESD Protection to 2kV

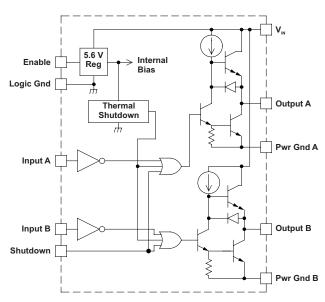
DESCRIPTION

The UC1708 family of power drivers is made with a high-speed, high-voltage, Schottky process to interface control functions and high-power switching devices – particularly power MOSFETs. Operating over a 5 V to 35 V supply range, these devices contain two independent channels. The A and B inputs are compatible with TTL and CMOS logic families, but can withstand input voltages as high as V_{IN} . Each output can source or sink up to 3 A as long as power dissipation limits are not exceeded.

Although each output can be activated independently with its own inputs, they can be forced low in common through the action of either a digital high signal at the Shutdown terminal or by forcing the Enable terminal low. The Shutdown terminal will only force the outputs low, it will not effect the behavior of the rest of the device. The Enable terminal effectively places the device in under-voltage lockout, reducing power consumption by as much as 90%. During under-voltage and disable (Enable terminal forced low) conditions, the outputs are held in a self-biasing, low-voltage, state.

The UC3708 and UC2708 are available in plastic 8-pin MINI DIP and 16-pin *bat-wing* DIP packages for commercial operation over a 0°C to 70°C temperature range and industrial temperature range of –25°C to 85°C respectively. For operation over a –55°C to 125°C temperature range, the UC1708 is available in hermetically sealed 8-pin MINI CDIP, 16 pin CDIP and 20 pin CLCC packages. Surface mount devices are also available.

BLOCK DIAGRAM



NOTE: Shutdown feature is not available in J or N packages only.

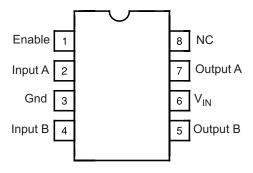


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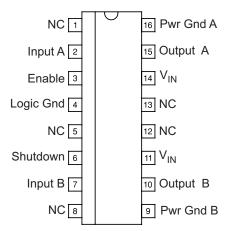


CONNECTION DIAGRAMS

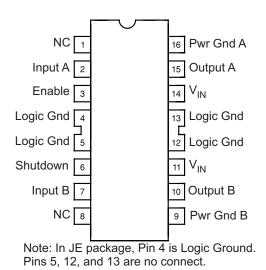




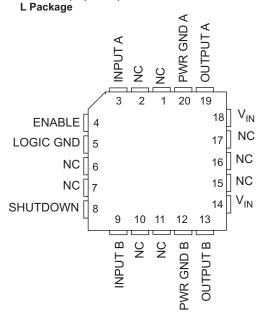
SOIC-16 (Top View) DW Package



DIL-16 (Top View) JE Or NE Package



CLCC-20 (Top View)





ABSOLUTE MAXIMUM RATINGS(1)

		VALUE	UNIT	
Supply Voltage, V _{IN}		35	V	
Output Comment (Feels Output Course or Sink)	Steady-State	0.5	А	
Output Current (Each Output, Source or Sink)	Peak Transient	3	Α	
Ouput Voltage	-0.3 to (V _{IN} + 0.3)	V		
Enable and Shutdown Inputs	-0.3 to 6.2	V		
A and B Inputs		-0.3 to (V _{IN} + 0.3)	V	
Operating Junction Temperature ⁽²⁾		150	°C	
Storage Temperature Range		-65 to 150	°C	
Lead Temperature (Soldering, 10 Seconds)		300	°C	

- (1) All voltages are with respect to Logic Gnd pin. All currents are positive into, negative out of, device terminals.r
- (2) Consult Unitrode Integrated Circuits databook for information regarding thermal specifications and limitations of packages.

ELECTRICAL CHARACTERISTICS

Unless otherwise stated, V_{IN} =10V to 35V, and these specifications apply for: -55°C<T_A<125°C for the UC1708, -25°C<T_A<85°C for the UC2708, and 0°C<T_A<70°C for the UC3708, T_A = T_J

	PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
		Outputs low		18	26	
V_{IN}	Supply current	Outputs high		14	18	mA
		Enable = 0 V		1	4	
	A, B and shutdown inputs low level				0.8	V
	A, B and shutdown inputs high level		2.0			V
	A, B Input current low	$V_{A,B} = 0.4V$	-1	-0.6		mA
	A, B Input current high	V _{A,B} = 2.4V	-200		50	Α
	A, B Input leakage current high	V _{A,B} = 35.3V			200	Α
	Shutdown input current low	V _{SHUTDOWN} = 0.4V		20	100	Α
	Chutday in ingest as month inh	V _{SHUTDOWN} = 2.4V		170	500	Α
	Shutdown input current high	V _{SHUTDOWN} = 6.2V		0.6	1.5	mA
	Enable input current low	V _{ENABLE} = 0V	-600	-460	200	Α
	Enable input current high	V _{ENABLE} = 6.2V			200	Α
	Enable threshold rising			2.8	3.6	V
	Enable threshold falling		1.0	2.4	3.4	V
V _{IN} -	Output Library Output for	$I_{OUT} = -50 \text{mA}$			2.0	V
V_{OUT}	Output High Saturation	$I_{OUT} = -500$ mA			2.5	V
V	Outrot I am Catomatica	I _{OUT} = 50mA			0.5	V
V _{OUT}	Output Low Saturation	I _{OUT} = 500mA			2.5	V
	Thermal Shutdown			155		°C



SWITCHING CHARACTERISTICS (see Figure 1)

(VIN = 20V, delays measured to 10% output change.)

PARAMETER	TEST	CONDITIONS	MIN T	YP MAX	UNIT	
FROM A,B INPUT TO OUTPUT	:				11	
	CL = 0pF		25 40	ns		
	CI 4000pF	UC1708		25 45		
Rise Time Delay (TPLH)	CL = 1000pF	UC2708/UC3708		25 40	ns	
	CI 2200pF	UC1708		25 50		
	CL = 2200pF	UC2708/UC3708		25 45	ns	
10% to 90% Rise (TTLH)	CL = 0pF			55 75	ns	
	CI 4000=F(1)	UC1708		25 80		
	$CL = 1000pF^{(1)}$	UC2708/UC3708		25 50	ns	
	CI 2200pF	UC1708		40 85		
	CL = 2200pF	UC2708/UC3708		40 55	ns	
	CL = 0pF	CL = 0pF				
Fall Time Delay (TPHL)	CL = 1000pF ⁽¹⁾			25 45	ns	
	CL = 2200pF					
	CL = 0pF	•				
90% to 10% Fall (TTHL)	CL = 1000pF ⁽¹⁾	· ·				
,	CL = 2200pF		40 55			

⁽¹⁾ These parameters, specified at 1000pF, although ensured over recommended operating conditions, are not tested in production.

SWITCHING CHARACTERISTICS (see Figure 1)

(VIN = 20V, delays measured to 10% output change.)

PARAMETER	TES	TEST CONDITIONS						
FROM SHUTDOWN INPUT TO	OUTPUT:			•				
	CL = 0pF	CL = 0pF						
	CL = 1000pF ⁽¹⁾	UC1708	30	80				
Rise Time Delay (TPLH)	CL = 1000pr	UC2708/UC3708	30	75	ns			
	CI 0000=F	UC1708	35	85				
	CL = 2200pF	UC2708/UC3708	35	75	ns			
	CL = 0pF		50	75	ns			
10% to 90% Rise (TTLH)	CL = 1000pF ⁽¹⁾	UC1708	25	80				
	CL = 1000pr	UC2708/UC3708	25	50	ns			
	CI 0000=F	UC1708	40	85				
	CL = 2200pF	UC2708/UC3708	40	55	ns			
	CL = 0pF	CL = 0pF						
Fall Time Delay (TPHL)	CL = 1000pF ⁽¹⁾	CL = 1000pF ⁽¹⁾						
	CL = 2200pF	·						
	CL = 0pF	CL = 0pF						
90% to 10% Fall (TTHL)	CL = 1000pF ⁽¹⁾		25	25 45	ns			
	CL = 2200pF	·						
Total Committee Comment	F = 200kHz, 50% duty of	F = 200kHz, 50% duty cycle, both channels; CL = 0pF						
Total Supply Current	F = 200kHz, 50% duty of	F = 200kHz, 50% duty cycle, both channels; CL = 2200pF						

⁽¹⁾ These parameters, specified at 1000pF, although ensured over recommended operating conditions, are not tested in production.



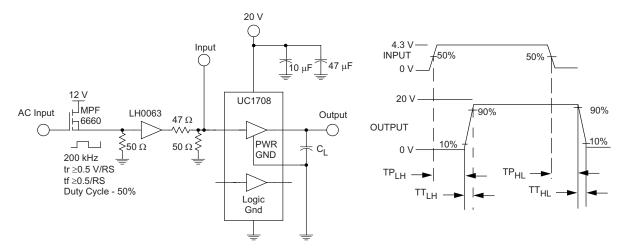
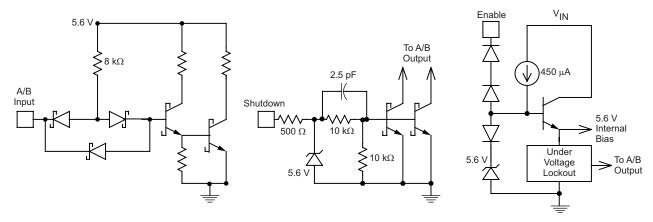


Figure 1. AC Test Circuit and Switching Time Waveforms



NOTE: Shutdown feature available only in JE, NE or DW Packages.

Figure 2. Equivalent Input Circuits





25-Sep-2013

PACKAGING INFORMATION

Orderable Device	Status	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking (4/5)	Sample
5962-0051401Q2A	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	-55 to 125	5962- 0051401Q2A UC1708L/ 883B	Sample
5962-0051401QEA	ACTIVE	CDIP	J	16	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-0051401QE A UC1708JE/883B	Sample
5962-0051401QPA	ACTIVE	CDIP	JG	8	1	TBD	A42	N / A for Pkg Type	-55 to 125	0051401QPA UC1708	Sampl
5962-0051401V2A	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	-55 to 125	5962- 0051401V2A UC1708L QMLV	Sampl
5962-0051401VEA	ACTIVE	CDIP	J	16	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-0051401VE A UC1708JEQMLV	Samp
5962-0051401VPA	ACTIVE	CDIP	JG	8	1	TBD	A42	N / A for Pkg Type	-55 to 125	0051401VPA UC1708	Samp
UC1708J	ACTIVE	CDIP	JG	8	1	TBD	A42	N / A for Pkg Type	-55 to 125	UC1708J	Samp
UC1708J883B	ACTIVE	CDIP	JG	8	1	TBD	A42	N / A for Pkg Type	-55 to 125	0051401QPA UC1708	Samp
UC1708JE	ACTIVE	CDIP	J	16	1	TBD	A42	N / A for Pkg Type	-55 to 125	UC1708JE	Samp
UC1708JE883B	ACTIVE	CDIP	J	16	1	TBD	A42	N / A for Pkg Type	-55 to 125	5962-0051401QE A UC1708JE/883B	Samp
UC1708L883B	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	-55 to 125	5962- 0051401Q2A UC1708L/ 883B	Samp
UC2708D	OBSOLETI		UTR			TBD	Call TI	Call TI	-40 to 85		
UC2708DW	ACTIVE	SOIC	DW	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR	-40 to 85	UC2708DW	Samp
UC2708DWG4	ACTIVE	SOIC	DW	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR	-40 to 85	UC2708DW	Samp





25-Sep-2013

Orderable Device	Status	Package Type	Package	Pins	Package	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking	Samples
	(1)		Drawing		Qty	(2)		(3)		(4/5)	
UC2708DWTR	ACTIVE	SOIC	DW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR	-40 to 85	UC2708DW	Samples
UC2708DWTRG4	ACTIVE	SOIC	DW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR	-40 to 85	UC2708DW	Samples
UC2708J	OBSOLETE		UTR			TBD	Call TI	Call TI	-40 to 85		
UC2708JE	OBSOLETE		UTR			TBD	Call TI	Call TI	-40 to 85		
UC2708N	ACTIVE	PDIP	Р	8	50	Green (RoHS & no Sb/Br)	CU NIPDAU	N / A for Pkg Type	-40 to 85	UC2708N	Samples
UC2708NG4	ACTIVE	PDIP	Р	8	50	Green (RoHS & no Sb/Br)	CU NIPDAU	N / A for Pkg Type	-40 to 85	UC2708N	Samples
UC2708Q	OBSOLETE		UTR			TBD	Call TI	Call TI	-40 to 85		
UC3708DW	ACTIVE	SOIC	DW	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR	0 to 70	UC3708DW	Samples
UC3708DWG4	ACTIVE	SOIC	DW	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR	0 to 70	UC3708DW	Samples
UC3708DWTR	ACTIVE	SOIC	DW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR	0 to 70	UC3708DW	Samples
UC3708DWTRG4	ACTIVE	SOIC	DW	16	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-2-260C-1 YEAR	0 to 70	UC3708DW	Samples
UC3708N	ACTIVE	PDIP	Р	8	50	Green (RoHS & no Sb/Br)	CU NIPDAU	N / A for Pkg Type	0 to 70	UC3708N	Samples
UC3708NE	ACTIVE	PDIP	N	16	25	Green (RoHS & no Sb/Br)	CU NIPDAU	N / A for Pkg Type	0 to 70	UC3708NE	Samples
UC3708NEG4	ACTIVE	PDIP	N	16	25	Green (RoHS & no Sb/Br)	CU NIPDAU	N / A for Pkg Type	0 to 70	UC3708NE	Samples
UC3708NG4	ACTIVE	PDIP	Р	8	50	Green (RoHS & no Sb/Br)	CU NIPDAU	N / A for Pkg Type	0 to 70	UC3708N	Samples
UC3708Q	OBSOLETE		UTR			TBD	Call TI	Call TI	0 to 70		

⁽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.

PACKAGE OPTION ADDENDUM



25-Sep-2013

(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.
- (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.

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OTHER QUALIFIED VERSIONS OF UC1708, UC1708-SP, UC3708:

Catalog: UC3708, UC1708

Military: UC1708

Space: UC1708-SP

NOTE: Qualified Version Definitions:

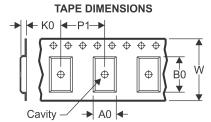
- Catalog TI's standard catalog product
- Military QML certified for Military and Defense Applications
- Space Radiation tolerant, ceramic packaging and gualified for use in Space-based application

PACKAGE MATERIALS INFORMATION

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TAPE AND REEL INFORMATION





	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

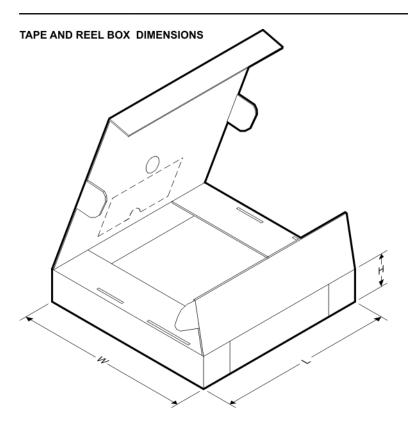
QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*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
	UC2708DWTR		DVV	16	2000	330.0	16.4	10.75	10.7	2.7	12.0	16.0	Q1
UC2708DWTR SOIC DW 16 2000 330.0 16.4 10.75 10.7 2.7 12.0 16.0 Q1	UC3708DWTR	SOIC	DW	16	2000	330.0	16.4	10.75	10.7	2.7	12.0	16.0	Q1

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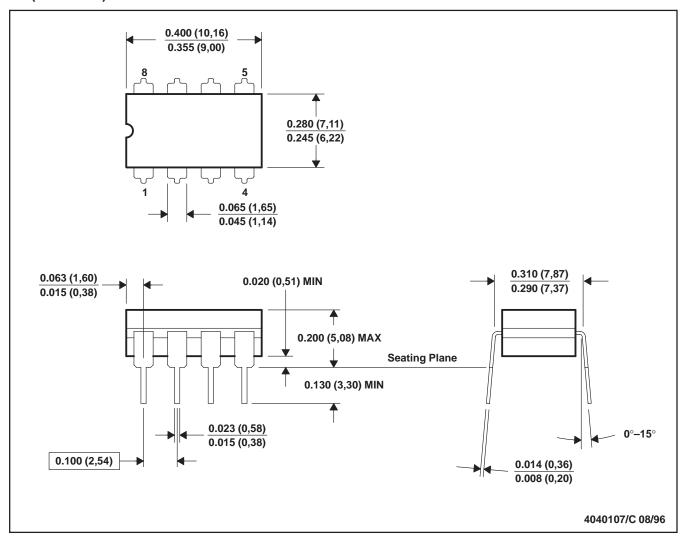


*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
UC2708DWTR	SOIC	DW	16	2000	367.0	367.0	38.0
UC3708DWTR	SOIC	DW	16	2000	367.0	367.0	38.0

JG (R-GDIP-T8)

CERAMIC DUAL-IN-LINE



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

- B. This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification.
- E. Falls within MIL STD 1835 GDIP1-T8

14 LEADS SHOWN



- 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.

FK (S-CQCC-N**)

LEADLESS CERAMIC CHIP CARRIER

28 TERMINAL SHOWN

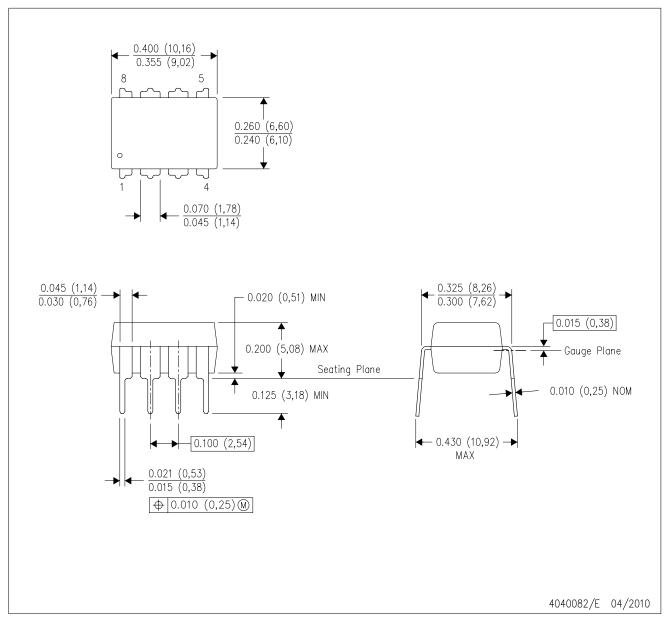


- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a metal lid.
- D. Falls within JEDEC MS-004



P (R-PDIP-T8)

PLASTIC DUAL-IN-LINE PACKAGE



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. Falls within JEDEC MS-001 variation BA.



N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN

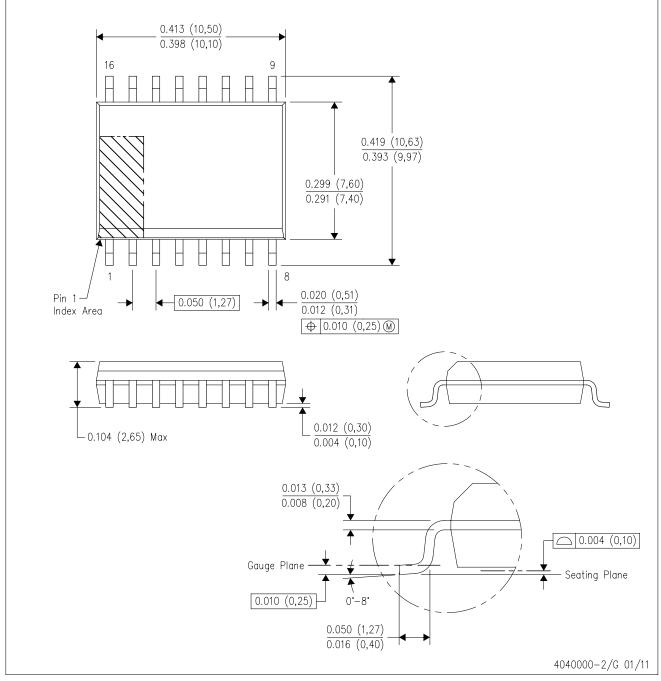


- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
- The 20 pin end lead shoulder width is a vendor option, either half or full width.



DW (R-PDSO-G16)

PLASTIC SMALL OUTLINE



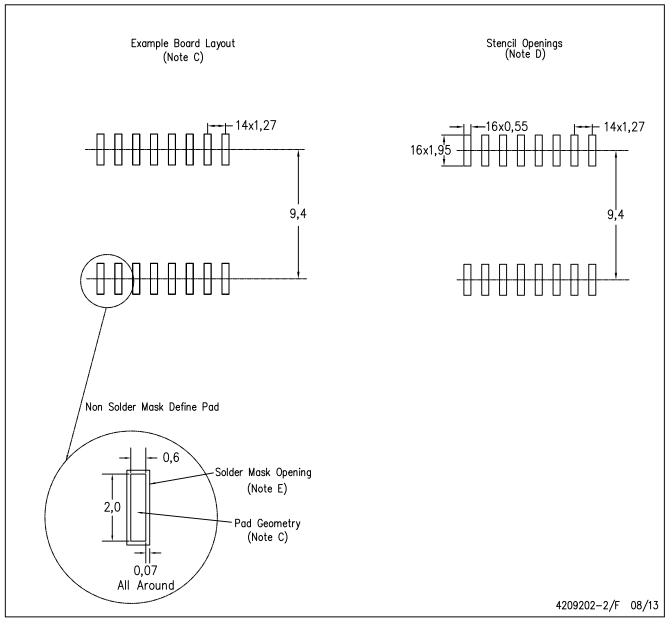
NOTES: A. All linear dimensions are in inches (millimeters). Dimensioning and tolerancing per ASME Y14.5M-1994.

- 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).
- D. Falls within JEDEC MS-013 variation AA.



DW (R-PDSO-G16)

PLASTIC SMALL OUTLINE



- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Refer to IPC7351 for alternate board design.
- D. 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
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



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