

SLLS062E-MAY 1990-REVISED AUGUST 2007

#### **FEATURES**

- Meets or Exceeds the Requirements of IBM® 360/370 Input/Output Interface Specification for 4.5-Mb/s Operation
- Single 5-V Supply
- **Uncommitted Emitter-Follower Output** Structure for Party-Line Operation
- **Driver Output Short-Circuit Protection**
- **Driver Input/Receiver Output Compatible With**
- Receiver Input Resistance . . . 7.4 k $\Omega$  to 20 k $\Omega$
- **Ratio Specification for Propagation Delay** Time, Low to High/High to Low

### **DESCRIPTION/** ORDERING INFORMATION

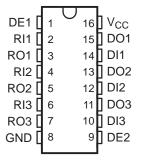
The SN751730 triple line driver/receiver is specifically designed to meet the input/output interface specifications for IBM System 360/370. It also is compatible with standard TTL logic and supply voltage levels.

The low-impedance emitter-follower driver outputs of the SN751730 drive terminated lines, such as coaxial cable or twisted pair. Having the outputs uncommitted allows wired-OR logic to be performed in party-line applications. Output short-circuit protection is provided by an internal clamping network that turns on when the output voltage drops approximately 2.5 V.

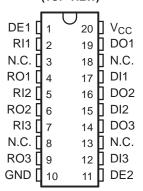
An open line affects the receiver input as does a low-level input voltage.

All the driver inputs and receiver outputs are in conventional TTL configuration and the gating can be used during power-up and power-down sequences to ensure that no noise is introduced to the line by pulling either DE1 or DE2 to a low level.

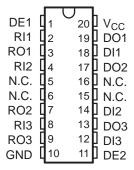
#### D OR N PACKAGE (TOP VIEW)



#### **DW PACKAGE** (TOP VIEW)



### **NS PACKAGE** (TOP VIEW)



N.C. - No internal connection

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#### ORDERING INFORMATION

T <sub>A</sub>	PACKA	GE <sup>(1)(2)</sup>	ORDERABLE PART NUMBER	TOP-SIDE MARKING
	PDIP – N	Tube	SN751730N	SN751730N
	SOIC - D	Tube	SN751730D	SN751730
0°C to 70°C	30IC - D	Tape and reel	SN751730DR	31731730
0.0 10 10.0	0010 011	Tube	SN751730DW	SN751730
	SOIC – DW	Tape and reel	SN751730DWR	SN751730
	SOP - NS	Tape and reel	SN751730NSR	SN751730

- (1) Package drawings, thermal data, and symbolization are available at www.ti.com/packaging.
- (2) For the most current package and ordering information, see the Package Option Addendum at the end of this document, or see the TI website at www.ti.com.

#### **FUNCTION TABLES**

#### **EACH DRIVER**

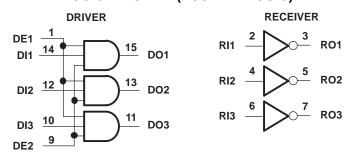
	INPUTS		OUTPUT
DI	DE1	DE2	DO
L	Χ	X	L
X	L	X	L
X	Х	L	L
Н	Н	Н	Н

## EACH DRIVER(1)

INPUT RI	OUTPUT RO
L	Н
Н	L
Open	Н

(1) H = high level, L = low level, X = irrelevant

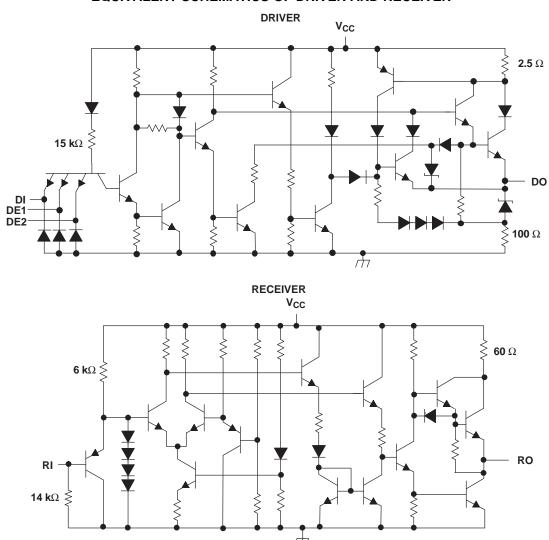
## **LOGIC DIAGRAM (POSITIVE LOGIC)**



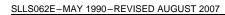
Pin numbers shown are for the D and N package only.



## **EQUIVALENT SCHEMATICS OF DRIVER AND RECEIVER**(1)



(1) All resistor values are nominal.





## **Absolute Maximum Ratings**(1)

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

			MIN	MAX	UNIT	
$V_{CC}$	Supply voltage <sup>(2)</sup>			7	V	
V	Input voltage range	Driver	-0.5	7	V	
VI	Input voltage range	Receiver	-0.5	7	V	
Vo	Output voltage range	Driver	-0.5	7	V	
	Enable input voltage range	nable input voltage range				
	Park and the section (3)	D package		73	73	
0		DW package		58	°C/W	
$\theta_{JA}$	Package thermal impedance (3)	N package	-0.5 7 -0.5 7 -0.5 7 -0.5 7 -0.5 7 -0.5 7 -0.5 60 -0.5 150 -0.6 60	67	-C/VV	
		NS package		60		
TJ	Operating virtual junction temperature			150	°C	
	Lead temperature 1,6 mm (1/16 inch) fr	om case for 10 s		260	°C	
T <sub>stg</sub>	Storage temperature range		-65	150	°C/W	

<sup>(1)</sup> 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.

## **Recommended Operating Conditions**

			MIN	NOM	MAX	UNIT	
V <sub>CC</sub>	Supply voltage		4.75	5	5.25	V	
V	High level input valtage	Driver, Enable	2			V	
V <sub>IH</sub>	High-level input voltage	Receiver	1.55			<b>v</b>	
.,	Laur laurel immust vielte me	Driver, Enable			0.8	V	
$V_{IL}$	Low-level input voltage	Receiver			1.15		
$T_A$	Operating free-air temperature		0		70	°C	

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<sup>(2)</sup> All voltage values are with respect to network ground terminal.

<sup>(3)</sup> The package thermal impedance is calculated in accordance with JESD 51-7.



## **DRIVER SECTION**

## **Electrical Characteristics**

over recommended ranges of supply voltage and operating free-air temperature (unless otherwise noted)

	PARAMETER		TEST C	ONDITIONS	MIN	MAX	UNIT	
V <sub>IK</sub>	Input clamp voltage		$V_{CC} = 4.75 \text{ V},$	$I_{IL} = -18 \text{ mA}$		-1.5	V	
			$V_{CC} = 4.75 \text{ V},$ $I_{OH} = -59.3 \text{ mA}$	V <sub>IH</sub> = 2 V, T <sub>A</sub> = 25°C	3.11			
V	High-level output voltage	$V_{CC} = 5.25 \text{ V},$ $I_{OH} = -78.1 \text{ mA}$	V <sub>IH</sub> = 2 V,		4.1	V		
V <sub>OH</sub>	nign-level output voltage	$V_{CC} = 4.75 \text{ V},$ $R_L = 51.4 \Omega$	V <sub>IH</sub> = 2 V,	3.05		V		
			$V_{CC} = 5.25 \text{ V},$ $R_L = 56.9 \Omega$	V <sub>IH</sub> = 2 V,		4.2		
V <sub>ODH</sub>	Differential high-level output voltage		$R_L$ = 46.3 Ω or 56.9 Ω			0.5	V	
			$V_{CC} = 5.25 \text{ V},$	$I_{OL} = -0.24 \text{ mA}$		0.15	.,	
V <sub>OL</sub>	Low-level output voltage		$V_{IL} = 0.8 \text{ V},$ $V_{IH} = 4.5 \text{ V}$	$R_L = 56.9 \Omega$		0.15	V	
	High lovel input augrent	DI	V 5.05.V	V 27V		20		
I <sub>IH</sub>	High-level input current	DE	$V_{CC} = 5.25 \text{ V},$	V <sub>IH</sub> = 2.7 V		60	μΑ	
	Low level input current	DI	V 5.05.V	V 0.4.V		-400		
I <sub>IL</sub>	Low-level input current	DE	$V_{CC} = 5.25 \text{ V},$	$V_{IH} = 0.4 V$		-1200	μA	
	Liab loval autout aurrent		V <sub>CC</sub> = 4.75 V,	V <sub>IL</sub> = 0		100		
I <sub>OH</sub>	High-level output current		V <sub>OH</sub> = 5 V	V <sub>IH</sub> = 4.5 V		100	μA	
Ios	Short-circuit output current <sup>(1)</sup>	ent <sup>(1)</sup>		V <sub>IH</sub> = 4.5 V		-30	mA	
I <sub>CCH</sub>	Cumply ourront (total madrage)		V <sub>CC</sub> = 5.25 V,	$V_{I(D)} = 4.5 \text{ V},$ $V_{I(R)} = 0$	47			
I <sub>CCL</sub>	Supply current (total package)		No load	$V_{I(D)} = 0,$ $V_{I(R)} = 4.5 \text{ V}$	80		mA	

<sup>(1)</sup> Not more than one output should be shorted at a time, and duration of the short circuit should not exceed one second.

## **Switching Characteristics**

 $V_{CC} = 5 \text{ V} + 5\%, T_A = 25^{\circ}\text{C}$ 

	PARAMETER	TEST	MIN	TYP	MAX	UNIT	
t <sub>PLH</sub>	Propagation delay time, low- to high-level output			6.5	12	18.5	ns
t <sub>PHL</sub>	Propagation delay time, high- to low-level output	$R_L = 47.5 \Omega$ ,	See Figure 1	6.5	12	18.5	ns
$\Delta t_{pd}$	Differential propagation delay time (1)	-				10	ns
t <sub>r</sub>	Output rise time	V <sub>CC</sub> = 5 V,	V <sub>O</sub> = 0.15 V to 3.05	5	10		ns
t <sub>f</sub>	Output fall time	$R_L = 47.5 \Omega$ , See Figure 1	V, C <sub>L</sub> = 10.2 pF,	5	13		ns
SR	Slew rate	$V_O = 1 \text{ V to } 3 \text{ V}$ average, $R_L = 47.5 \Omega$ , See Figure 1	C <sub>L</sub> = 10.2 pF,			0.65	V/ns

(1)  $\Delta t_{pd} = |t_{PLH} - t_{PHL}|$ 



## **RECEIVER SECTION**

## **Electrical Characteristics**

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

	PARAMETER	1	TEST CONDITIONS	MIN	MAX	UNIT
V <sub>OH</sub>	High-level output voltage	V <sub>CC</sub> = 4.75 V, <sub>IOH</sub> = -400 μA	V <sub>I</sub> = 1.15 V,	2.7		V
V	Low-level output voltage	$V_{CC} = 4.75 \text{ V},$	I <sub>OL</sub> = 8 mA		0.5	V
V <sub>OL</sub>	Low-level output voltage	$V_{IH} = 1.55 \text{ V}$	I <sub>OL</sub> = 4 mA		0.4	V
rį	Input resistance	$V_{CC} = 0$ ,	$V_I = 0.15 \text{ V to } 3.9 \text{ V}$	7.4	20	kΩ
I <sub>IH</sub>	High-level input current	V <sub>CC</sub> = 4.75 V,	V <sub>IH</sub> = 3.11 V		0.42	mA
I <sub>IL</sub>	Low-level input current	$V_{CC} = 5.25 \text{ V},$	V <sub>IL</sub> = 0.15 V	-0.24	0.04	mA
I <sub>OS</sub> <sup>(1)</sup>	Short-circuit output current	$V_{CC} = 5.25 \text{ V},$	V <sub>IL</sub> = 0	-20	-100	mA
I <sub>CCH</sub>	Supply current (total	V <sub>CC</sub> = 5.25 V,	$V_{I(D)} = 4.5 \text{ V},$ $V_{I(R)} = 0$		47	mA
I <sub>CCL</sub>	package)	No load	$V_{I(D)} = 0,$ $V_{I(R)} = 4.5 \text{ V}$		80	IIIA

<sup>(1)</sup> Not more than one output should be shorted at a time, and duration of the short circuit should not exceed one second.

## **Switching Characteristics**

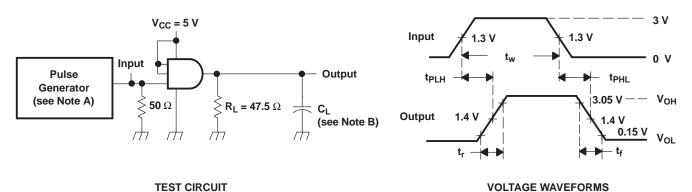
 $V_{CC} = 5 \text{ V} + 5\%, T_A = 25^{\circ}\text{C}$ 

	PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
t <sub>PLH</sub>	Propagation delay time, low- to high-level output		7.5	12	19.5	ns
t <sub>PHL</sub>	Propagation delay time, high- to low-level output	$R_L = 2 k\Omega$ , $C_L = 15 pF$ , See Figure 2	7.5	12	19.5	ns
$\Delta t_{pd}^{(1)}$	Differential propagation delay time				10	ns

(1)  $\Delta t_{pd} = |t_{PLH} - t_{PHL}|$ 



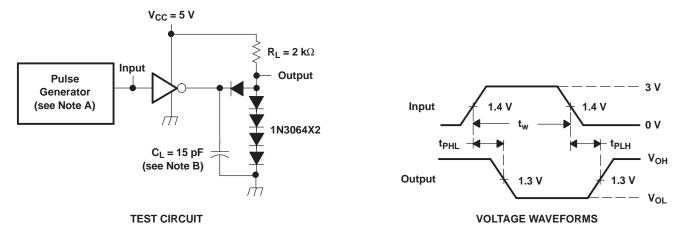
#### PARAMETER MEASUREMENT INFORMATION



NOTES: A. The pulse generator has the following characteristics:  $Z_O \approx 50~\Omega$ ,  $t_w \le 500~ns$ , PRR  $\le 1~MHz$ ,  $t_f \le 6~ns$ ,  $t_r \le 15~ns$ .

B. C<sub>L</sub> includes probe and jig capacitance.

Figure 1. Driver Test Circuit and Voltage Waveforms



NOTES: A. The pulse generator has the following characteristics:  $Z_0 \approx 50~\Omega$ ,  $t_w \le 500~ns$ , PRR  $\le 1~MHz$ ,  $t_f \le 10~ns$ ,  $t_r \le 10~ns$ .

B. C<sub>L</sub> includes probe and jig capacitance.

Figure 2. Receiver Test Circuit and Voltage Waveforms





18-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)	Samples
SN751730D	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	SN751730	Samples
SN751730DE4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	SN751730	Samples
SN751730DG4	ACTIVE	SOIC	D	16	40	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	0 to 70	SN751730	Samples
SN751730DWR	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM		SN751730	Samples
SN751730DWRE4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM		SN751730	Samples
SN751730DWRG4	ACTIVE	SOIC	DW	20	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM		SN751730	Samples
SN751730N	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN751730N	Samples
SN751730NE4	ACTIVE	PDIP	N	16	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	0 to 70	SN751730N	Samples

<sup>(1)</sup> 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)

<sup>(2)</sup> 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.

<sup>(3)</sup> MSL, Peak Temp. -- The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.



## PACKAGE OPTION ADDENDUM

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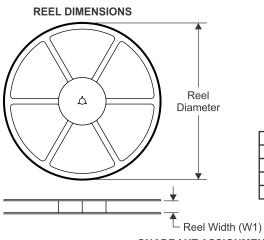
<sup>(4)</sup> There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.

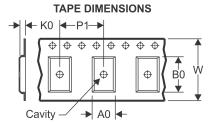
<sup>(5)</sup> Multiple Device Markings will be inside parentheses. Only one Device Marking contained in parentheses and separated by a "~" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Device Marking for that device.

## 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

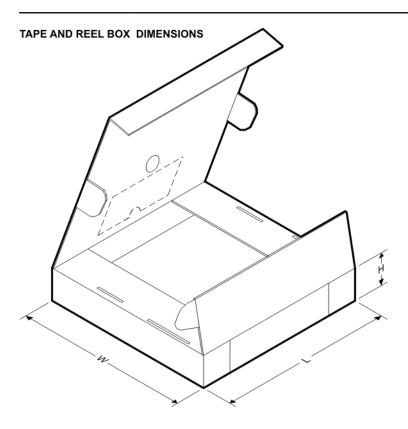
## QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



#### \*All dimensions are nominal

Device	Package Type	Package Drawing			Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN751730DWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.3	2.7	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)
SN751730DWR	SOIC	DW	20	2000	367.0	367.0	45.0

## N (R-PDIP-T\*\*)

## PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN

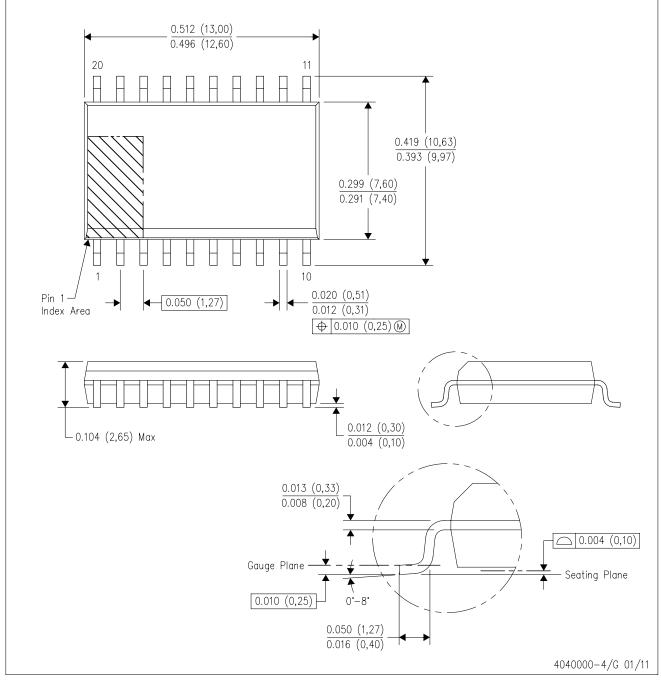


- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
- The 20 pin end lead shoulder width is a vendor option, either half or full width.



DW (R-PDSO-G20)

## PLASTIC SMALL OUTLINE



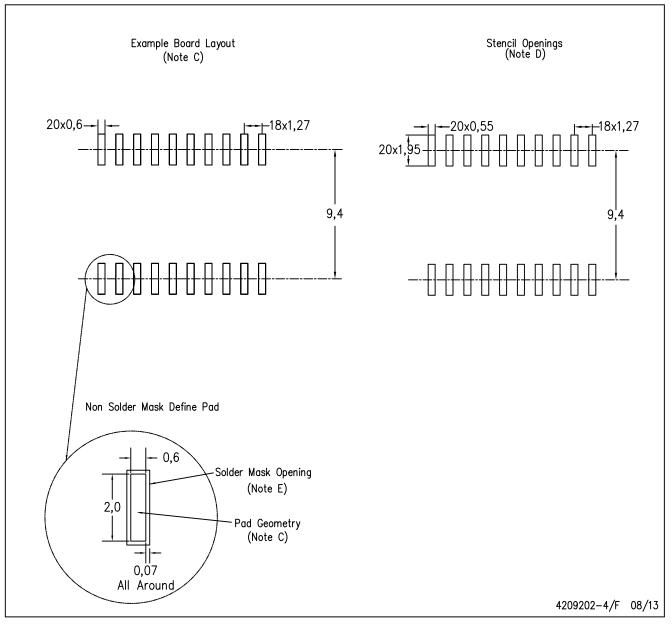
NOTES: A. All linear dimensions are in inches (millimeters). Dimensioning and tolerancing per ASME Y14.5M-1994.

- 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 AC.



# DW (R-PDSO-G20)

## 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.



## D (R-PDS0-G16)

## PLASTIC SMALL OUTLINE



- 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 0.006 (0,15) each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0.017 (0,43) each side.
- E. Reference JEDEC MS-012 variation AC.



# D (R-PDSO-G16)

## PLASTIC SMALL OUTLINE



- 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. 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 other stencil recommendations.
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



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