



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

PCN# 20071205001
Datasheet Errata for TS12A4516 and TS12A4517 Device Types
Information Only

Dear Customer:

This is an information-only announcement of a change to a device that is currently offered by Texas Instruments.

The changes discussed within this PCN are for your information only. Please see the attachment details for the planned implementation date.

This notification period is per TI's standard process. Any negotiated alternative change requirements will be provided via the customer's defined process. Customers with previously negotiated, special requirements will be handled separately. Any inquiries should be directed to your local Field Sales Representative.

For questions regarding this notice, contact your local Field Sales Representative or the PCN Manager (PCN_ww_admin_team@list.ti.com).

Sincerely,

PCN Team
SC Business Services
Phone: (214) 480-6037
Fax: (214) 480-6659

PCN Number:	20071205001	PCN Date:	12/20/2007
Title:	Datasheet Errata for TS12A4516 and TS12A4517 Device Types		
Customer Contact:	Linda K Miles	Phone:	903-868-7638
		Dept:	Standard Linear and Logic
Proposed 1st Ship Date:	N/A	Estimated Sample Availability:	N/A
Change Type:			
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Assembly Process
<input type="checkbox"/>	Design	<input checked="" type="checkbox"/>	Electrical Specification
<input type="checkbox"/>	Test Site	<input type="checkbox"/>	Packing/Shipping/Labeling
<input type="checkbox"/>	Wafer Bump Site	<input type="checkbox"/>	Wafer Bump Material
<input type="checkbox"/>	Wafer Fab Site	<input type="checkbox"/>	Wafer Fab Materials
<input type="checkbox"/>		<input type="checkbox"/>	Assembly Materials
<input type="checkbox"/>		<input type="checkbox"/>	Mechanical Specification
<input type="checkbox"/>		<input type="checkbox"/>	Test Process
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Process

PCN Details

Description of Change:

Texas Instruments is modifying the input logic low and logic high specification to correctly represent the input control used in this device.

Change From:

V+ = 4.5 V to 5.5 V, V- = -4.5 V to -5.5 V, TA = -40°C to 85°C (unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	TA	MIN	TYP ⁽²⁾	MAX	UNIT
Input logic high	V _{IH}		Full	2.5			V
Input logic low	V _{IL}		Full			1.8	V

Change To:

V+ = 4.5 V to 5.5 V, V- = -4.5 V to -5.5 V, TA = -40°C to 85°C (unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	TA	MIN	TYP ⁽²⁾	MAX	UNIT
Input Logic high	V _{IH}		Full	V+ -1.5V			V
Input Logic low	V _{IL}		Full			V+ -3.5V	V

Change From:

V+ = 3.0 V to 3.6 V, V- = -3.0 V to 3.6, TA = -40°C to 85°C (unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	TA	MIN	TYP ⁽²⁾	MAX	UNIT
Input Logic high	V _{IH}		Full	1.75			V
Input Logic low	V _{IL}		Full			0.8	V

Change To:

V+ = 3.0 V to 3.6 V, V- = -3.0 V to 3.6, TA = -40°C to 85°C (unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	TA	MIN	TYP ⁽²⁾	MAX	UNIT
Input Logic high	V _{IH}		Full	V+ -1.5V			V
Input Logic low	V _{IL}		Full			V+ -3.5V	V

Change From:

V+ = 1.65 V to 1.95 V, V- = -1.65 V to -1.95 V, TA = -40°C to 85°C (unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	TA	MIN	TYP ⁽²⁾	MAX	UNIT
Input Logic high	V _{IH}		Full	0.45			V
Input Logic low	V _{IL}		Full			0.075	V

Change To:

V+ = 1.65 V to 1.95 V, V- = -1.65 V to -1.95 V, TA = -40°C to 85°C (unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS	TA	MIN	TYP ⁽²⁾	MAX	UNIT
Input Logic high	V _{IH}		Full	V+ -1.5V			V
Input logic low	V _{IL}		Full			V+ -3.5V	V

(2) Typical values are at T_A = 25°C.

Literature Number		
Device Type	Current Literature #	New Literature #
TS12A4516	SCDS236A	SCDS236B
TS12A4517	SCDS236A	SCDS236B
Reason for Change:		
This change is to correct the datasheet.		
Anticipated impact on Fit, Form, Function & Reliability (positive / negative):		
Texas Instruments does not anticipate a negative impact on fit, form, function nor reliability.		
Changes to product identification resulting from this PCN:		
There is no change to product identification.		
Product Affected:		
TS12A4516D	TS12A4517D	
TS12A4516DG4	TS12A4517DG4	
TS12A4516DR	TS12A4517DR	
TS12A4516DRG4	TS12A4517DRG4	

For questions regarding this notice, e-mails can be sent to the regional contacts shown below or your local Field Sales Representative.

Location	E-Mail
USA	PCNAmericasContact@list.ti.com
Europe	PCNEuropeContact@list.ti.com
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Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
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