



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

**Notification# 20170227002
Datasheet for TCA9554 and TCA9554A
Information Only**

Date: March 01, 2017
To: PREMIER FARNELL PCN

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 notification are for your information only.

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

**Information Only
Attachments**

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

DEVICE	CUSTOMER PART NUMBER
TCA9554ADBQR	null
TCA9554ADBR	null
TCA9554APWR	null
TCA9554DBQR	null
TCA9554PWR	null

Technical details of this Product Change follow on the next page(s).

PCN Number:	20170227002	PCN Date:	March 1, 2017
Title:	Datasheet for TCA9554 and TCA9554A		
Customer Contact:	PCN Manager	Dept:	Quality Services
Change Type:			
<input type="checkbox"/>	Assembly Site	<input type="checkbox"/>	Design
<input type="checkbox"/>	Assembly Process	<input checked="" type="checkbox"/>	Data Sheet
<input type="checkbox"/>	Assembly Materials	<input type="checkbox"/>	Part number change
<input type="checkbox"/>	Mechanical Specification	<input type="checkbox"/>	Test Site
<input type="checkbox"/>	Packing/Shipping/Labeling	<input type="checkbox"/>	Test Process
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Site
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Material
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Bump Process
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Site
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Materials
<input type="checkbox"/>		<input type="checkbox"/>	Wafer Fab Process

Notification Details

Description of Change:

Texas Instruments Incorporated is announcing an information only notification. The product datasheet(s) is being updated as summarized below. The following change history provides further details.



TCA9554

SCPS233E – MARCH 2012 – REVISED FEBRUARY 2017

Changes from Revision D (August 2015) to Revision E	Page
• Added DW package.....	1
• Added Maximum junction temperature to the <i>Absolute Maximum Ratings</i> table	5
• Added I _{OL} for different T _j to the <i>Recommended Operating Conditions</i> table.....	5
• Changed I _{CC} standby into different input states, with increased maximums	7
• Changed C _{IO} , C _I maximum	7
• Removed ΔI _{CC} spec from the <i>Electrical Characteristics</i> table, added ΔI _{CC} typical characteristics graph	7
• Clarified interrupt reset time (t _r) with respect to falling edge of ACK related SCL pulse.	12
• Made changes to the <i>Interrupt Output (INT)</i> section.....	16
• Made changes to the <i>Reads</i> section	22
• Added the <i>Calculating Junction Temperature and Power Dissipation</i> section.....	25
• Changed recommended supply sequencing values	27
• Power on reset requirements relaxed	27



TCA9554A

SCPS196E – DECEMBER 2010 – REVISED FEBRUARY 2017

Changes from Revision D (August 2015) to Revision E	Page
• Added DW package.....	1
• Added Maximum junction temperature to the <i>Absolute Maximum Ratings</i> ⁽¹⁾ table	5
• Added I _{OL} for different T _j to the <i>Recommended Operating Conditions</i> table.....	5
• Changed I _{CC} standby into different input states, with increased maximums	7
• Removed ΔI _{CC} spec from the <i>Electrical Characteristics</i> table, added ΔI _{CC} typical characteristics graph	7
• Changed C _{IO} , C _I values.....	7
• Clarified interrupt reset time (t _r) with respect to falling edge of ACK related SCL pulse.	12
• Made changes to the <i>Interrupt Output (INT)</i> section.....	16
• Made changes to the <i>Reads</i> section	22
• Added the <i>Calculating Junction Temperature and Power Dissipation</i> section.....	25
• Power on reset requirements relaxed	27

The datasheet number will be changing.

Device Family	Change From:	Change To:
TCA9554	SCPS233D	SCPS233E
TCA9554A	SCPS196D	SCPS196E

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/TCA9554>

<http://www.ti.com/product/TCA9554A>

Reason for Change:

To accurately reflect device characteristics.

Anticipated impact on Fit, Form, Function, Quality or Reliability (positive / negative):

No anticipated impact. This is a specification change announcement only. There are no changes to the actual device.

Changes to product identification resulting from this PCN:

None.

Product Affected:

TCA9554DBQR	TCA9554DBR	TCA9554DWR	TCA9554DWT
TCA9554PWR	TCA9554ADBQR	TCA9554ADBR	TCA9554ADWR
TCA9554ADWT	TCA9554APWR		

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
Asia Pacific	PCNAsiaContact@list.ti.com
Japan	PCNJapanContact@list.ti.com