

Notification# 20181002001.0
Datasheet for Datasheet for LM158, LM158A, LM258, LM258A
LM358, LM358A, LM358B, LM2904,
LM2904B, LM2904V
Information Only

Date: October 03, 2018

To: TOKYO ELECTRON DEVICE (DSTR) PCN

Dear Customer:

This is an information-only announcement of a change to the datasheet for 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
LM258DGKR	null
LM258P	null
LM358DGKR	null
LM358P	null
LM358PW	null
LM258AP	null
LM258D	null
LM2904DR	null
LM358ADR	null
LM258ADR	null
LM2904PWRG4-JF	null
LM358ADRG4	null
LM358AP	null
LM358PSR	null
LM2904DGKR	null
LM358DR	null
LM358PWR	null
LM258ADGKR	null
LM2904PWR	null
LM358ADGKR	null
LM358D	null
LM358PWRG4-JF	null

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

PCN Number:	20181002001.0	PCN Date:	October 03, 2018
Title:	Datasheet for LM158, LM158A, LM258, LM258A, LM358, LM358A, LM358B, LM2904, LM2904B, LM2904V		
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"/>	Wafer Bump Site
		<input type="checkbox"/>	Wafer Bump Material
		<input type="checkbox"/>	Wafer Bump Process
		<input type="checkbox"/>	Wafer Fab Site
		<input type="checkbox"/>	Wafer Fab Materials
		<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.



**LM158, LM158A, LM258, LM258A
LM358, LM358A, LM358B, LM2904, LM2904B, LM2904V**
SLOS068V –JUNE 1976–REVISED SEPTEMBER 2018

Changes from Revision U (January 2017) to Revision V

Page

• Changed the data sheet title	1
• Changed first four items in the <i>Features</i> section	1
• Changed the first item in the Applications section and added four new items	1
• Changed voltage values in the first paragraph of the <i>Description</i> section	1
• Changed text in the second paragraph of the <i>Description</i> section.....	1
• Added devices LM358B and LM2904B to data sheet.....	1
• Changed the first three rows of the <i>Device Information</i> table and added a a cross-referenced note for PREVIEW-status devices.....	1
• Added <i>Device Comparison</i> table	4
• Added a table note to the <i>Pin Functions</i> table	5
• Changed "free-air temperature" to "ambient temperature" in the <i>Absolute Maximum Ratings</i> condition statement	6
• Changed all entries in the <i>Absolute Maximum Ratings</i> table except T_J and T_{stg}	6
• Deleted lead temperature and case temperature from <i>Absolute Maximum Ratings</i>	6
• Changed device listings and their voltage values in the <i>ESD Ratings</i> table	6
• Changed "free-air temperature" to "ambient temperature" in the <i>Recommended Operating Conditions</i> condition statement	7
• Changed table entries for all parameters in the <i>Recommended Operating Conditions</i> table	7
• Added rows to the Thermal Information table, and a table note regarding device-package combinations	7
• Added two Electrical Characteristics tables with five additional devices, and redistributed the seven original devices differently among the tables	8
• Deleted the <i>Operating Conditions</i> table.....	13
• Added a condition statement to the <i>Typical Characteristics</i> section.....	14
• Changed specific voltages to a <i>Recommended Operating Conditions</i> reference	17
• Changed unity-gain bandwidth from 0.7 MHz for all devices to 1.2 MHz for B-version devices.....	18
• Changed slew rate from 3 V/ μ s for all devices to 0.5 V/ μ s for B-version devices.....	18
• Changed the Input Common Mode Range section in multiple places throughout	18
• Changed V_{CC} to V_S in the Application Information section	19
• Subscripted the suffixes fro R_i and R_f	19
• Changed <i>Operational Amplifier Board Layout for Noninverting Configuration</i> with an image that includes a dual op amp	21
• Added Preview designation to the LM358B and LM2904B devices in Table 1	22

The datasheet number will be changing.

Device Family	Change From:	Change To:
LM158 LM258 LM258A LM358 LM358A LM358B LM2904 LM2904B LM2904V	SLOS068U	SLOS068V

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/LM358B>

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:

5962-87710012A	LM258DRG3	LM2904PWRG3	LM358D
5962-8771001PA	LM258DRG4	LM2904PWRG4-JF	LM358DG4
5962-87710022A	LM258P	LM2904QDR	LM358DGKR
5962-8771002PA	LM258PE4	LM2904QDRG4	LM358DGKRG4
LM158AFKB	LM2904AVQDR	LM2904VQDR	LM358DR
LM158AJG	LM2904AVQDRG4	LM2904VQDRG4	LM358DRE4
LM158AJGB	LM2904AVQPWR	LM2904VQPWR	LM358DRG3
LM158FKB	LM2904AVQPWRG4	LM2904VQPWRG4	LM358DRG4
LM158JG	LM2904D	LM358AD	LM358P
LM158JGB	LM2904DE4	LM358ADE4	LM358PE3
LM258AD	LM2904DG4	LM358ADG4	LM358PE4
LM258ADGKR	LM2904DGKR	LM358ADGKR	LM358PSR
LM258ADR	LM2904DGKRG4	LM358ADGKRG4	LM358PW
LM258ADRE4	LM2904DR	LM358ADR	LM358PWR
LM258ADRG4	LM2904DRE4	LM358ADRE4	LM358PWRG3
LM258AP	LM2904DRG3	LM358ADRG4	LM358PWRG4
LM258APE4	LM2904DRG4	LM358AP	LM358PWRG4-JF
LM258D	LM2904P	LM358APE4	PLM358BIDR
LM258DG4	LM2904PE4	LM358APW	
LM258DGKR	LM2904PSR	LM358APWR	
LM258DGKRG4	LM2904PW	LM358APWRG4	
LM258DR	LM2904PWR	LM358BIDR	

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