



12500 TI Boulevard, MS 8640, Dallas, Texas 75243

**Notification# 20241218001.0
Datasheet for LP2951-Q1**

Information Only Datasheet

Date: December 19, 2024

To: MOUSER 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 Change Management team.

Sincerely,

Change Management Team
SC Business Services

20241218001.0
Information Only Datasheet
Attachments

Products Affected:

The devices listed on this page are a subset of the complete list of affected devices. According to our records, you have recently purchased these devices. The corresponding customer part number is also listed, if available.

DEVICE	CUSTOMER PART NUMBER
LP2951-33QDRGRQ1	LP2951-33QDRGRQ1
LP2951-50QDRGRQ1	LP2951-50QDRGRQ1

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

PCN Number:	20241218001.0	PCN Date:	December 19, 2024
Title:	Datasheet for LP2951-Q1		
Customer Contact:	Change Management team	Dept:	Quality Services
Change Type:	Electrical Specification		

PCN 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.



LP2951-Q1
SLVSAW6H – JUNE 2011 – REVISED NOVEMBER 2024

Changes from Revision G (April 2024) to Revision H (November 2024)

Page

• Changed entire document to align with current family format.....	1
• Added M3 devices to document.....	1
• Added legacy and new chip nomenclature throughout document.....	1
• Updated the numbering format for tables, figures, and cross-references throughout the document	1
• Added new chip curves to the <i>Typical Characteristics</i> section.....	10
• Added <i>Output Enable</i> section.....	20
• Added <i>Dropout Voltage</i> section.....	20
• Changed <i>Current Limit</i> section.....	20
• Added <i>Undervoltage Lockout (UVLO)</i> section.....	21
• Added <i>Thermal Shutdown</i> section.....	21
• Added <i>Reverse Current</i> section.....	22
• Added <i>Input and Output Capacitor Requirements</i> section.....	22
• Added <i>Estimating Junction Temperature</i> section.....	23
• Added <i>Power Dissipation (P_D)</i> section.....	23
• Added <i>Recommended Capacitor Types</i> section.....	24
• Added <i>Feedback Resistor Selection</i> section.....	26
• Added <i>Feedforward Capacitor</i> section.....	26
• Added <i>Device Support and Documentation Support</i> sections.....	31

Functional Safety Information

LP2951-Q1 Functional Safety FIT Rate, FMD and Pin FMA

Changes from Revision A (August 2024) to Revision B (November 2024)

Page

• Updated functional block diagram.....	2
• Updated Component Failure Rate Tables 2-1, 2-2, 2-3, and 2-4.....	3
• Updated information for the WSON-8 and SOIC-8 packages in the Pin FMA Tables 4-2, 4-3, 4-4, 4-5, 4-6, 4-7, 4-8, and 4-9.....	4

The datasheet number will be changing.

Device Family	Change From:	Change To:
LP2951-Q1	SLVSAW6G	SLVSAW6H
LP2951-Q1 Functional Safety	SLVAEK8A	SLVAEK8B

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/LP2951-Q1>

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:			
LP2951-33QDRGRQ1	LP2951-50QDRGRQ1		

For questions regarding this notice, e-mails can be sent to the Change Management team or your local Field Sales Representative.

ZVEI ID: SEM-DS-02 and SEM-DS-03

IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES “AS IS” AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, or other requirements. These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI’s products are provided subject to TI’s Terms of Sale (www.ti.com/legal/termsofsale.html) or other applicable terms available either on ti.com or provided in conjunction with such TI products. TI’s provision of these resources does not expand or otherwise alter TI’s applicable warranties or warranty disclaimers for TI products.