

PCN Number:	20241025000.0	PCN Date:	October 25, 2024
Title:	Datasheet for XTR105		
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.



XTR105

SBOS061C – FEBRUARY 1997 – REVISED OCTOBER 2024

Changes from Revision B (August 2004) to Revision C (October 2024)	Page
• Added the <i>Pin Configuration and Functions, Specifications, ESD Ratings, Recommended Operating Conditions, Thermal Information, Detailed Description, Overview, Functional Block Diagram, Feature Description, Device Functional Modes, Application and Implementation, Typical Applications, Layout, Layout Guidelines, Device and Documentation Support, and Mechanical, Packaging, and Orderable Information</i> sections.....	1
• Added end equipments in <i>Applications</i>	1
• Updated the numbering format for tables, figures, and cross-references throughout the document.....	1
• Added <i>Pin Functions</i> table.....	3
• Moved operating and storage temperature parameters from <i>Electrical Characteristics</i> to <i>Absolute Maximum Ratings</i>	4
• Changed minimum operating temperature from -55°C to -40°C in <i>Absolute Maximum Ratings</i>	4
• Moved specified temperature and power-supply parameters from <i>Electrical Characteristics</i> to <i>Recommended Operating Conditions</i>	4
• Deleted thermal resistance, θ_{JA} parameters in <i>Electrical Characteristics</i> and replaced with detailed thermal model parameters in <i>Thermal Information</i>	4
• Updated formatting of <i>Electrical Characteristics</i> table.....	5
• Changed Voltage accuracy vs temperature typical specification from $\pm 0.2\text{mV}/^{\circ}\text{C}$ to $\pm 0.5\text{mV}/^{\circ}\text{C}$ in <i>Electrical Characteristics</i>	5
• Updated Figure 5-2, <i>Step Response</i>	7
• Updated Figure 5-8, <i>Zero Output and Reference Current Noise vs Frequency</i>	7
• Changed description of maximum loop-supply voltage to specified absolute maximum rating in <i>Surge Protection</i>	14
• Updated suggested Zener diode part numbers in Figure 6-4, <i>Reverse Voltage Operation and Overvoltage Surge Protection</i>	14
• Updated suggested transistor part numbers in Figure 7-1, <i>Basic 2-Wire RTD Temperature Measurement Circuit with Linearization</i>	15
• Moved <i>Adjusting Initial Errors</i> into <i>Error Analysis</i> section	20

The datasheet number will be changing.

Device Family	Change From:	Change To:
XTR105	SBOS061B	SBOS061C

These changes may be reviewed at the datasheet links provided.

<http://www.ti.com/product/XTR105>

Reason for Change:

To accurately reflect device characteristics. Datasheet update driven by change announced in PCN 20240806000.

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

No anticipated impact.	
Changes to product identification resulting from this PCN:	
None.	
Product Affected:	
Devices included in PCN 20240806000	
XTR105UA/2K5	
Datasheet Only	
XTR105P	XTR105PA

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

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