



## SPECIFICATION NOTICE

LT1351, LT1352/LT1353,  
LT1354, LT1355/LT1356, LT1357, LT1358/LT1359, LT1360,  
LT1361/LT1362, LT1363, LT1364/LT1365

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The **LT1351, LT1352/LT1353, LT1354, LT1355/LT1356, LT1357, LT1358/LT1359, LT1360, LT1361/LT1362, LT1363 and LT1364/LT1365** data sheets have been modified. The changes shown below apply to all data sheets. Replacement specifications and text are marked in **bold**. Text that should be bold in the data sheets is marked in ***bold italic***.

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### ABSOLUTE MAXIMUM RATINGS

Differential Input Voltage  
(Transient Only, Note 1) .....  $\pm 10V$

### ELECTRICAL CHARACTERISTICS

Notes should be renumbered in the data sheet Electrical Tables and Notes to allow for insertion of a new Note 1. For example the old Note 1 (for Output Short-Circuit Duration in the Absolute Maximum Ratings) should become Note 2.

**Note 1:** Differential inputs of  $\pm 10V$  are appropriate for transient operation only, such as during slewing. Large, sustained differential inputs will cause excessive power dissipation and may damage the part. See Input Considerations in the Applications Information section of this data sheet for more details.

### APPLICATIONS INFORMATION

Replace the entire "Input Considerations" section in the "Applications Information" section with the following (note that "LTXXXX" is replaced with the appropriate part number for each data sheet):

#### ***Input Considerations***

Each of the LTXXXX inputs is the base of an NPN and a PNP transistor whose base currents are of opposite polarity and provide first-order bias current cancellation. Because of variation in the matching of NPN and PNP beta, the polarity of the input bias current can be positive or negative. The offset current does not depend on NPN/PNP beta matching and is well controlled. The use of balanced source resistance at each input is recommended for applications where DC accuracy must be maximized.

The inputs can withstand transient differential input voltages up to 10V without damage and need no clamping or source resistance for protection. Differential inputs, however, generate large supply currents (tens of mA) as required for high slew rates. If the device is used with sustained differential inputs, the average supply current will increase, excessive power dissipation will result and the part may be damaged. ***The part should not be used as a comparator, peak detector or other open-loop application with large, sustained differential inputs.*** Under normal, closed-loop operation, an increase of power dissipation is only noticeable in applications with large slewing outputs and is proportional to the magnitude of the differential input voltage and the percent of the time that the inputs are apart. Measure the average supply current for the application in order to calculate the power dissipation.

# SPECIFICATION NOTICE

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For further information regarding this specification notice contact: Linear Technology Corporation  
1630 McCarthy Blvd.  
Milpitas, California 95035-7417  
Attn: Product Marketing Manager  
Phone: (408) 432-1900

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