# SPECIFICATION NOTICE

# LT1113

September 1998

The **LT®1113** data sheet has been modified as shown below in **bold**. For complete specifications, typical performance curves and applications information, please see the **LT1113** data sheet.

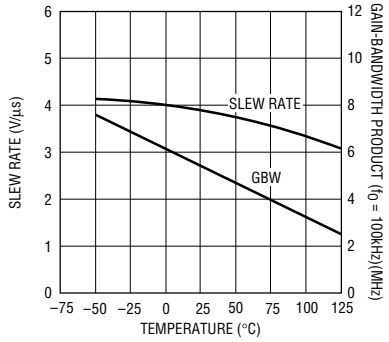


## FEATURES

- Gain-Bandwidth Product: **5.6**MHz Typ

## TYPICAL PERFORMANCE CHARACTERISTICS

**Slew Rate and Gain-Bandwidth Product vs Temperature**




## ELECTRICAL CHARACTERISTICS

**$V_S = \pm 15V$, $V_{CM} = 0V$, $T_A = 25°C$, unless otherwise noted.**

| SYMBOL | PARAMETER | CONDITIONS | | LT1113AM/AC MIN | LT1113AM/AC TYP | LT1113AM/AC MAX | LT1113M/C MIN | LT1113M/C TYP | LT1113M/C MAX | UNITS |
|---|---|---|---|---|---|---|---|---|---|---|
| SR | Slew Rate | $R_L \geq 2k$ (Note 6) | | **2.3** | **3.9** | | **2.3** | **3.9** | | V/µs |
| GBW | Gain-Bandwidth Product | $f_0 = 100kHz$ | | **4.0** | **5.6** | | **4.0** | **5.6** | | MHz |
| **$V_S = \pm 15V$, $V_{CM} = 0V$, $0°C \leq T_A \leq 70°C$ Unless Otherwise Noted (Note 9)** | | | | | | | | | | |
| SR | Slew Rate | $R_L \geq 2k$ (Note 6) | ● | **2.1** | **3.7** | | **1.7** | **3.7** | | V/µs |
| GBW | Gain-Bandwidth Product | $f_0 = 100kHz$ | ● | **3.2** | **4.5** | | **3.2** | **4.5** | | MHz |
| **$V_S = \pm 15V$, $V_{CM} = 0V$, $-40°C \leq T_A \leq 85°C$ Unless Otherwise Noted (Note 7)** | | | | | | | | | | |
| SR | Slew Rate | $R_L \geq 2k$ (Note 6) | ● | **2.0** | **3.5** | | **1.6** | **3.5** | | V/µs |
| GBW | Gain-Bandwidth Product | $f_0 = 100kHz$ | ● | **2.9** | **4.3** | | **2.9** | **4.3** | | MHz |
| **$V_S = \pm 15V$, $V_{CM} = 0V$, $-55°C \leq T_A \leq 125°C$ Unless Otherwise Noted (Note 9)** | | | | | | | | | | |
| SR | Slew Rate | $R_L \geq 2k$ (Note 6) | ● | **1.9** | **3.3** | | **1.6** | **3.3** | | V/µs |
| GBW | Gain-Bandwidth Product | $f_0 = 100kHz$ | ● | **2.2** | **3.4** | | **2.2** | **3.4** | | MHz |

The ● denotes specifications which apply over the full operating temperature range.

**Note 6:** Slew rate is measured in $A_V = -1$; input signal is ±7.5V, output measured at ±2.5V.

**Note 7:** The LT113 is designed, characterized and expected to meet these extended temperature limits, but is not tested at –40°C and 85°C. Guaranteed I grade parts are available. Consult factory.

**Note 9:** The LT1113 is measured in an automated tester in less than one second after application of power. Depending on the package used, power dissipation, heat sinking, and air flow conditions, the fully warmed-up chip temperature can be 10°C to 50°C higher than the ambient temperature.

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