PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN Number: PCN 20014
Date Issued: **10/26/2020**
Product(s) Affected:

SP211ECA-L/TR	SP211ECT-L/TR	SP211EEA-L/TR

Manufacturing Location Affected: Foundry FROM: Silan, China
Foundry TO: TSMC Fab 10, Shanghai
Date Effective (90 day window): October 26, 2020
Date Issued +90 days: January 26, 2021

Means of Distinguishing Changed Devices:
Product Mark:
☐ Back Mark
☐ Date Code
☒ Lot Number

Contact: Your local MaxLinear Marketing Representative or
or contact our Customer Support team by creating a Support Ticket at
http://www.maxlinear.com/support/createcase
Phone: 1-760-692-0711

Attachment: ☐ Yes ☒ No

Samples: Request from MaxLinear Marketing Representatives

Description and Purpose of Change:

MaxLinear has qualified TSMC Fab 10 wafer foundry in Shanghai in order to facilitate long term support of the product line. The wafer process is 0.25um CMOS High Voltage Mixed Signal. The process has been optimized to produce very similar product characteristics as the currently shipping devices from Silan foundry and will meet existing datasheet specifications with the below exceptions.

- Abs. Max Rx Input voltage range (RIN) changes from ±20V to ±25V
- RS-232 Output voltage swing changes from Typical = ±7V to ±8.7V
- RS-232 input Voltage range changes from Min=-15V, Max = +15V to Min = -25V to Max = -+25V
- Icc no load changes from max = 6mA to 8mA
- Icc RL = 3kΩ changes from typical = 15mA to 23mA

There are no changes to assembly location.

There are no changes in the package BOM.

There are no changes in device reliability.

Note: Users who rely on DC, diode characteristics during ICT testing should take caution certain I/O characteristics may appear changed due to the proprietary I/O structures employed by TSMC. These DC / diode characteristic differences are not guaranteed nor required to ensure full design functionality per datasheet. Adjustments at ICT testing may be required to prevent false failures.

☒ Die Technology
☒ Wafer Fabrication
☐ Assembly Process
☐ Equipment
☐ Material
☐ Testing
☒ Manufacturing Sites
☒ Data Sheet
☐ Yield Enhancement
☐ Other:

Reliability/Qualification Summary: Reliability reports available upon request.

Customer Acknowledgement of Receipt within 30 days of issue. Lack of acknowledgement within 30 days constitutes acceptance of change.

Please fax or email this form to the contact above after completing the following information:

Customer: _____

Name: _____

Title: _____

Date: _____

E-Mail: _____

Phone: _____

Fax: _____

☐ Approval for shipments prior to effective date

Customer Comments (Optional):