

## 1. Type of Change (Major or Minor)

Major

## 2. Change Description

Low-level output voltage change ( $V_{OL}$ ),  $I_O = 1\text{mA}$ ,  $V_{CCY} = 1.65$  to  $5.5\text{V}$ . Change max limit from  $0.1\text{V}$  to  $0.15\text{V}$ .

## 3. Impact on Product and/or Process

Limit increase for  $V_{OL}$  will prevent marginal yield loss during high temperature testing.

## 4. Justification for Change

Adjust limits to accurately reflect device  $v_{OL}$  drive capability at 1ma loading.

## 5. Change Risk Assessment

Minimal to no impact to customer use case. New limit meets standard  $V_{IL}$  thresholds with significant margin at minimum operating  $V_{CC}$ .

## 6. Qualification Plan

Not required

## 7. Qualification Report

Not applicable

## 8. Summary

See change description

## 9. Impacted Device - Document - Process List

AP54RHC301ELT,AP54RHC301ALT,AP54RHC301BLT,AP54RHC301CLT

## 10. Sample Availability Date and Projected Production Shipment

**Sample availability date:** N/A. Please contact Apogee for samples if needed.

**Projected production shipment date:** December 24, 2024 or upon PCN approval.

## 11. File Attachment

Not applicable