



Integrated Device Technology, Inc.
6024 Silver Creek Valley Road
San Jose, CA 96138

PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT 1 - PCN # : L1301-01

PCN Type: Wafer Fab Manufacturing Site Change - IDT Fab 4 to TSMC

Data Sheet Change: None

Detail Of Change:

This notification is to advise our customers that IDT has successfully completed the transfer of 74LVCHR162245APAG/8 wafer Fab production from IDT Hillsboro, Oregon (Fab4) to Taiwan Semiconductor Manufacturing Corporation (TSMC).

Fab 4 is now closed and all new wafer fab production will be from TSMC.

There is no change to ordering part number and device top mark .

Characterization data of material manufactured at TSMC is comparable to material manufactured at IDT Fab 4, Hillsboro.

Please contact your local IDT sales representative to request samples or additional information.



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ATTACHMENT 2 - PCN # : L1301-01

TSMC Transfer Qualification Test Result Summary

Technology Information: 0.5 μm

Fab Location: TSMC Fab 3

Technology Qualification Vehicle Test Summary – JESD47 Recommended Tests

Test / Conditions	Lead Vehicle: LVC16244A (40056X)
	Sample Size / Rejects/ each lot
High Temperature Operating Life (Dynamic) JESD22-A108B, +125°C @ 1000 hours or equivalent	79 / 0
Temperature Cycle JESD22-A104B, -55°C /125°C, 1000 cycles	45 / 0
High Temperature Storage Bake JESD22-A-103-B, 150°C, 1000 hrs	77 / 0
ESD: Human Body Model JESD22-A114F, >2000V	5 / 0
ESD: Charged Device Model JEDEC 22-101C, >500V	5 / 0
ESD: Machine Model JESD22-A115B, >200V	5 / 0
Latch-up JESD78B	6 / 0
Electrical Characterization per Datasheet conditions	5 / 0

Technology Qualification Vehicle Test Summary – Supplemental Tests

Test / Conditions	Lead Vehicle: : LVC16244A (40056X)
	Sample Size / Rejects/ each lot
Ball Shear Test JESD22-B116-A, Ball Shear Strength > 5.7g	5 / 0
Highly Accelerated Stress Test (HAST) EIA/JESD22-A110B, 130°C/85%R.H. Vcc max for 100 hours.	45 / 0
Autoclave EIA/JESD22-A102C, 168hrs @ 2 ATM, Saturated Steam @ 121°C	45 / 0

Note: For HAST, Autoclave and Temperature Cycle, samples have been subjected to pre-conditioning per JESD22-A113