

San Jose, CA 96138						
PRODUCT/PROCESS CHANGE NOTICE (PCN)						
PCN #: W151 Product Affected		TE: March 14, 2016 0G-57LF(T), 290GI-	□ Product Mark□ Back Mark	GUISHING CHANGED DEVICES: Prefix Z5 before datecode		
Date Effective:	June 14, 2016					
Contact:	IDT PCN DESK		Attachment:	Yes No		
E-mail:	pcndesk@idt.com		Samples: Available u	pon request		
DESCRIPTION	AND PURPOSE OF (CHANGE:				
 □ Die Technolog □ Wafer Fabrica □ Assembly Prod □ Equipment □ Material □ Testing 	cess	production site from United Manufacturing Corporation (The UMC wafer technology process. This process has been the parts on this PCN.	Microelectronics Corpor TSMC). is a .35um process and ven previously qualified b	has made a change to the wafer fabrication ration (UMC) to Taiwan Semiconductor will be manufactured on a TSMC .35um by IDT and with the same fab base used for		
 ■ Manufacturing Site □ Data Sheet □ Other There is no expected change to the data sheet, package or backend manufacturing process □ There is no change in ordering part number. The change will be indicated by a die step c the top mark. Please see attachments for qualification data. 			-			
		JMMARY: alification and characterization	n tests, there is no chang	ge to the performance or		
IDT records indito grant approval it will be assume IDT reserves the	or request additional in that this change is according to the change is acc	ritten notification of this chang information. If IDT does not re ceptable. sion manufactured after the pre-	ceive acknowledgement	t within 30 days of this notice		
Customer:				ents prior to effective date.		
Name/Date:		E-1	Mail Address:			
Title:		Ph	one# /Fax# :			
CUSTOMER CO	OMMENTS:					
IDT ACKNOW	LEDGMENT OF REC	CEIPT:				
RECD. BY:			DATE:			



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT I - PCN #: W1510-01

PCN Type: Wafer Fab Manufacturing Site Change - UMC to TSMC

Data Sheet Change: No

Detail Of Change:

This notification is to advise our customers that IDT has made a change to the wafer fabrication production site from United Microelectronics Corporation (UMC) to Taiwan Semiconductor Manufacturing Corporation (TSMC). The UMC wafer technology is a .35um process and will be manufactured on a TSMC .35um process. This process has been previously qualified by IDT and with the same fab base used for the parts on this PCN.

There is no expected change to the data sheet, package or backend manufacturing process.

There is no change in ordering part number. The change will be indicated by a die step change on the top mark.

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



Product: 280G-50LF

Foundry: TSMC

Technology Information: CMOS $0.35 \mu m$

Report Date: Oct 15, 2015

Device Qual Test Results Summary

Test Description	Conditions	Sample Size	Rejects	Comments
ESD: Human Body Model	IDT Spec	3	0	2000V
ESD: Charged Device Model	JESD22-C101	3	0	750V
Latch-Up	JESD78	6	0	
Electrical Characterization	Per Datasheet	10*	-	

Note: * Sample size applies to base characterization



Product: 280G-57LF

Foundry: TSMC

Technology Information: CMOS $0.35 \mu m$

Report Date: Oct 15, 2015

Device Qual Test Results Summary

Test Description	Conditions	Sample Size	Rejects	Comments
ESD: Human Body Model	IDT Spec	3	0	2000V
ESD: Charged Device Model	JESD22-C101	3	0	750V
Latch-Up	JESD78	6	0	
Electrical Characterization	Per Datasheet	10*	-	

Note: * Sample size applies to base characterization



Product: 290GI-34LF

Foundry: TSMC

Technology Information: CMOS $0.35 \mu m$

Report Date: Oct 15, 2015

Device Qual Test Results Summary

Test Description	Conditions	Sample Size	Rejects	Comments
ESD: Human Body Model	IDT Spec	3	0	2000V
ESD: Charged Device Model	JESD22-C101	3	0	750V
Latch-Up	JESD78	6	0	
Electrical Characterization	Per Datasheet	10*	-	

Note: * Sample size applies to base characterization



Foundry: TSMC

Technology Information: CMOS $0.35~\mu m$

Qualification Test Result Summary – JESD47 Recommended Tests

Test /Conditions	Conditions	Sample Size	Rejects	Comments
High Temperature Operating Life (Dynamic)	JESD22-A108D, +125°C, Vccmax @ 1000 hours or equivalent	77 77 77	0 0 0	
Temperature Cycle	JESD22-A104D, -55°C to +125°C, 700 cycles	25 25 25	0 0 0	
High Temperature Storage Bake	JESD22-A-103D, 150°C, 1000 hrs	25 25 25	0 0 0	
Highly Accelerated Stress Test (HAST)	EIA/JESD22-A110D, 130°C/85%R.H. Vcc max for 100 hours.	25 25 25	0 0 0	
Ball Shear Test	JESD22-B116A, Ball Shear Strength	5	0	

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