

Integrated Device Technology, Inc. 2975 Stender Way, Santa Clara, CA - 95054

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: F0001-01 DATE: January 21, 2000 Product Affected: 72v2114Z Product Family: FIFO	MEANS OF DISTINGUISHING CHANGED DEVICES: Product Mark		
72v2101, 72v2111, 72v295, 72v2105, 72v263, 72v273,			
72v283, 72v293, 72v2103, 72v2113, 72v3640, 72v3650	□ Date Code		
72v3660, 72v3670, 72v3680, 72v3690, 72v36100, 72v3611	10 Other		
Manufacturing Location Affected: Hillsboro, OR (Fab 4)			
Date Effective: April 21, 2000			
Contact: Dash Patel			
Title: Product Assurance Manager	Additional Data: Electrical parameters are unchanged		
Phone # 408-330-1488			
Fax #: 408-330-1450	Samples: Available upon request		
E-mail: dasharath.patel@idt.com			
• •	2114Z to 72v2114Y on request. IPT: ion of this change. Please use the acknowledgement below formation. If IDT does not receive acknowledgement within		
Customer:	Approval for shipments prior to effective date.		
Name/Date:	E-Mail Address:		
Title:	Phone# /Fax# :		
CUSTOMER COMMENTS:			
RECD. BY:	DATE:		

IDT FRC-1509-01 (Rev. 04) 4/15/99

ATTACHMENT - I

PCN Summary	Upgrade from stepping Z to stepping Y	
PCN Type:	Mask Change	
Commodity	FIFO	
Due Date	5/1/00	
Forecast or Execute	Execute	
Planned or Unplanned	Planned	
Data Sheet Change	No Change	
Detail of Change	Change stepping from 72v2114Z to 72v2114Y	

Stepping	Z	Y
Technology	CEMOS - 8	CEMOS - 8
# Meta Layers	2	
# Poly Layers	4	
Wafer Type	pprime	
Epitaxial Layer	none	SAME
Crystal orientation	100 +/- 1 degree	
	per SEMI STD	
Contact size	0.5 um	
Metal Via Size	0.6 um	A S
Passivation	8000A Nitride	
Metal 1 Composition	300A Ti; 1200A PVD TiN	
	100A CVD TiN;	"Z"
	4200A Al; 500A TiN	
Metal 1thickness/space	6300 A	
Minimum Metal 1 width/space	0.6/0.6 um	
Metal 2 Composition	300A Ti; 1000A PVD TiN	STEPPING
	9500A Al; 340A TiN	
Metal 2 thickness	11140 A	
Minimum Metal 2 width/sp	ace 0.7/0.9 um	
Gate Material	140 A gate oxide	
	2500 A poly	
Minimum Gate Length	0.55 um	

Conversion Schedule (Estimated)

	Sample Availability	Production Shipments
72v2114Y	5/1/00	5/1/00

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ATTACHMENT - II

Qualification Plan QFI-99-06

Test Vehicle:72v2114YExpected Completion Date:5/1/00

	Qualification requirements	Expected Completion
	Samples / # fails	Date
Operating Dynamic Life test	77/0	5/1/00
1000 hours @ 135C. Vcc = 4.0 Volts		
ESD Human Body Model	12/0	5/1/00
ESD Charge device Model	12 / 0	5/1/00
Latch-UP	10 / 0	5/1/00
(tested to 1.5 X Vcc)		
Temperature Cycling	45 / 0	5/1/00
Electrical Characterization	10	5/1/00

Characterization Data:

The Y die step meets the current data sheet