

	PRODU	CT/PROCESS	CH A	ANGE NOT	CICE (PC	N)	
PCN #: SR-0201-01 DATE: 2/8/02				MEANS OF DISTINGUISHING CHANGED DEVICES:			
Product Affected: 4M PBSRAM 71V576 Family - refer to attached list of part numbers.				☐ Product Mark ☐ Back Mark			
	uring Location Affected:	N/A		Date Code	"Y" Character i	in Top Mark	
	ective: May 9, 2002			Other			
	George Snell				_ ,,		
Title:	Quality Assurance Mana	ger	Att	achment::	Yes	∐ No	
Fax #:	(831) 754-4556 (831) 754-4672		Cos	malagi	Avoilable upon	raquast	
E-mail:	george.snell@idt.com		Sai	nples:	Available upon	rrequest.	
	PTION AND PURPOSE	OF CHANCE.					
■ Die Te		OF CHANGE:					
□ Wafer □ Assem □ Equipm □ Materi □ Testin	Fabrication Process ably Process ment ial g facturing Site	This change is to upgrade a CMOS 11.5 (.18μm) and a details on pages 2 and 4.					
RELIAB	ILITY/QUALIFICATION	ON SUMMARY:					
Qualifica	tion testing will verify tha	t there is no change to the p	roduct	reliability. Qualific	cation details are	available upon	
request							
CUSTON	MER ACKNOWLEDGM	MENT OF RECEIPT:					
to grant a it will be IDT rese	approval or request addition assumed that this change	er version manufactured afte	es not r	eceive acknowledg	ement within 30	days of this notice	
Custome	r:			Approval for sl	hipments prio	r to effective date.	
Name/Da	ate:		E-Mail	Address:			
Title:			Phone	# /Fax# :			
CUSTON	MER COMMENTS:						
IDT ACI	KNOWLEDGMENT OF	RECEIPT:					
DECD D	V.		DA	TC.			
KECD. B	Y:		DΑ	ATE:			

ATTACHMENT - PCN #: SR-0201-01

PCN Summary

PCN Type: Mask/Design Change for Die Shrink

Commodity Memory

Forecast or Execute Execute

Planned or Unplanned Planned

Data Sheet Change No Change

Detail of Change IDT's 4Mb PBSRAM Family is migrating from Cmos 10 to technology to Cmos 11.5 technology.

	Current Die Revision	Future Die Revision
Die Revision	Z step	Y Step
Wafer Fab Technology	Cmos 10	Cmos 11.5
# Poly Layers	3	1
# Metal Layers	2	3
Minimum Feature Size	0.28 μm	0.18 μm
Die Deminsions (sq mils)	93.7k	62.1k

Conversion schedule (Estimated)

Sample Availability Beginning Production Shipments Beginning

Earliest Sample Date	5/9/02	Earliest Production Date:	8/7/02
IDT71V3576	5/9/2002		8/7/02
IDT71V2576	5/9/2002		8/7/02
IDT71V3577	5/9/2002		8/7/02
IDT71V2577	5/9/2002		8/7/02
IDT71V3578	6/10/2002		9/9/02
IDT71V2578	6/10/2002		9/9/02
IDT71V3579	6/10/2002		9/9/02
IDT71V2579	6/10/2002		9/9/02
IDT71V35761	6/10/2002		9/9/02
IDT71V25761	6/10/2002		9/9/02
IDT71V35781	7/10/2002		10/8/2002
IDT71V25781	7/10/2002		10/8/2002

Please contact your local field sales representative for sample availability and production shipments. Actual dates may vary based on the specific device option requested.

ATTACHMENT - PCN #: SR-0201-01

Qualification Plan

Expected Completion Date

Test Vehicle	4/28/2002	5/28/2002	
71V576Y	Required Sample / # Fails	LOT #1	LOT #2
Operating Life Test: Dynamic @+135°C, Vcc=4V for 750 hours	116/0		
Bake & Ballshear Test @ 200°C / 4 ball bonds per device	5/0		
Temperature Cycling: (-65°C to +150°C, 500 cycles)	45 / 0		
HAST: (Biased, 100 Hrs. @+130°C, +85%RH, 3 Atm.)	45 / 0		
Autoclave:(Unbiased, 2 Atm Saturated Steam, +121°C, 168 Hrs)	45 / 0		
ESD Human Body Model	9/0		
ESD Charged Device Model	6/0		
Latch up: (Tested to 2X Vcc)	10/0		

Tests are completed for unshaded areas. Product release is based on qualification of initial lot.

Characterization Data:

Characterization will be completed as part of product qualification and data available upon request. Charterization will verify that there is no change to existing datasheet parameters.

ATTACHMENT - PCN #: SR-0201-01

Product Details:

71V576Z Family of Parts (Pipelined 133-150Mhz and Flow-Through options)						
Part Number	Old Rev	New Rev	Type	Speed	Configuration	I/O Voltage
IDT71V3576	Z	Υ	PBSRAM Pipelined	133 - 150MHz	128K x 36	3.3V
IDT71V2576	Z	Υ	PBSRAM Pipelined	133 - 150MHz	128K x 36	2.5V
IDT71V3577	Z	Υ	PBSRAM Flow-Through	7.5 - 8.5 ns	128K x 36	3.3V
IDT71V2577	Z	Υ	PBSRAM Flow-Through	7.5 - 8.5 ns	128K x 36	2.5V
IDT71V3578	Z	Υ	PBSRAM Pipelined	133 - 150MHz	256K x 18	3.3V
IDT71V2578	Z	Υ	PBSRAM Pipelined	133 - 150MHz	256K x 18	2.5V
IDT71V3579	Z	Υ	PBSRAM Flow-Through	7.5 - 8.5 ns	256K x 18	3.3V
IDT71V2579	Z	Υ	PBSRAM Flow-Through	7.5 - 8.5 ns	256K x 18	2.5V
71V576Z Family of Parts (Pipelined 166-200Mhz options)						
Part Number	Old Rev	New Rev	Type	Speed	Configuration	I/O Voltage
IDT71V35761	Z	Υ	PBSRAM Pipelined	166 - 200MHz	128K x 36	3.3V
IDT71V25761	Z	Υ	PBSRAM Pipelined	166 - 200MHz	128K x 36	2.5V
IDT71V35781	Z	Υ	PBSRAM Pipelined	166 - 200MHz	256K x 18	3.3V
IDT71V25781	Z	Υ	PBSRAM Pipelined	166 - 200MHz	256K x 18	2.5V