



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

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: **L-0505-04** DATE: 5/25/2005  
Product Affected: IDT49FCT3805 & IDT49FCT3805A  
All package options

Date Effective: August 24, 2005

### MEANS OF DISTINGUISHING CHANGED DEVICES:

- ☐ Product Mark  
☐ Back Mark  
☒ Date Code Prefix will change from "PB" to "Y"  
☐ Other

Contact: Bimla Paul  
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Attachment: ☒ Yes ☐ No

Samples: Available upon request

### DESCRIPTION AND PURPOSE OF CHANGE:

- ☐ Die Technology  
☐ Wafer Fabrication Process  
☐ Assembly Process  
☐ Equipment  
☐ Material  
☐ Testing  
☐ Manufacturing Site  
☐ Data Sheet  
☒ Other

This notification is to inform the customers of the die revision change from "PB" to "Y" on IDT49FCT3805 & IDT49FCT3805A (All Package Options). IDT is offering two options on the ordering part numbers. Please see the attachment for more detail.

### RELIABILITY/QUALIFICATION SUMMARY:

Please see the attachment for reliability data.

### CUSTOMER ACKNOWLEDGMENT OF RECEIPT:

IDT records indicate that you require written notification of this change. Please use the acknowledgement below or E-Mail to grant approval or request additional information. If IDT does not receive acknowledgement within 30 days of this notice it will be assumed that this change is acceptable.

IDT reserves the right to ship either version manufactured after the process change effective date until the inventory on the earlier version has been depleted.

Customer: \_\_\_\_\_

☐ *Approval for shipments prior to effective date.*

Name/Date: \_\_\_\_\_

E-Mail Address: \_\_\_\_\_

Title: \_\_\_\_\_

Phone# /Fax# : \_\_\_\_\_

CUSTOMER COMMENTS: \_\_\_\_\_

### IDT ACKNOWLEDGMENT OF RECEIPT:

RECD. BY: \_\_\_\_\_

DATE: \_\_\_\_\_



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### ATTACHMENT - PCN #: L-0505-04

**PCN Type:** Die Revision Change

**Data Sheet Change:** None

**Detail of Change:** This notification is to inform the customers of the die revision change from "PB" to "Y" on IDT49FCT3805 & IDT49FCT3805A (All Package Options). IDT is offering two options for the ordering part numbers as follow:

**Option 1:** IDT will offer the new die revision "Y" with the existing ordering part numbers for an extended period of time. The new parts will have the date code prefix "Y" on the topmark.

**Option 2:** IDT will also offer the new die revision "Y" with the new ordering part numbers that will contain the letter "B". In addition, the new parts will have the date code prefix "Y" on the topmark.

Option 1		Option 2	
Ordering Part #	Die Rev.	Ordering Part #	Die Rev.
IDT49FCT3805Q	PB, Y	IDT49FCT3805BQ	Y
IDT49FCT3805QI	PB, Y	IDT49FCT3805BQI	Y
IDT49FCT3805QG	PB, Y	IDT49FCT3805BQG	Y
IDT49FCT3805QGI	PB, Y	IDT49FCT3805BQGI	Y
IDT49FCT3805AQ	PB, Y	IDT49FCT3805BQ	Y
IDT49FCT3805AQI	PB, Y	IDT49FCT3805BQI	Y
IDT49FCT3805AQG	PB, Y	IDT49FCT3805BQG	Y
IDT49FCT3805AQGI	PB, Y	IDT49FCT3805BQGI	Y
IDT49FCT3805SO	PB, Y	IDT49FCT3805BSO	Y
IDT49FCT3805SOI	PB, Y	IDT49FCT3805BSOI	Y
IDT49FCT3805SOG	PB, Y	IDT49FCT3805BSOG	Y
IDT49FCT3805SOGI	PB, Y	IDT49FCT3805BSOGI	Y
IDT49FCT3805ASO	PB, Y	IDT49FCT3805BSO	Y
IDT49FCT3805ASOI	PB, Y	IDT49FCT3805BSOI	Y
IDT49FCT3805ASOG	PB, Y	IDT49FCT3805BSOG	Y
IDT49FCT3805ASOGI	PB, Y	IDT49FCT3805BSOGI	Y
IDT49FCT3805PY	PB, Y	IDT49FCT3805BPY	Y
IDT49FCT3805PYI	PB, Y	IDT49FCT3805BPYI	Y
IDT49FCT3805PYG	PB, Y	IDT49FCT3805BPYG	Y
IDT49FCT3805PYGI	PB, Y	IDT49FCT3805BPYGI	Y
IDT49FCT3805APY	PB, Y	IDT49FCT3805BPY	Y
IDT49FCT3805APYI	PB, Y	IDT49FCT3805BPYI	Y
IDT49FCT3805APYG	PB, Y	IDT49FCT3805BPYG	Y
IDT49FCT3805APYGI	PB, Y	IDT49FCT3805BPYGI	Y



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**Detail of Change:**  
(Continued)

Please note that there is no difference between the parts offered in options 1 and 2 as both will contain the same new "Y" revision die.

IDT anticipates a consolidation of the ordering numbers in the near future. The customers are recommended to opt for "option 2" when ordering the new parts.

Under the option 1, IDT will continue to ship the die revision "PB" until all material is depleted.

**Qualification Data:**

The following reliability tests were performed.  
Qualification results are as follow:

Test Description	Test Method	Required Sample/ # Fails	Test results
High Temperature Operating Life Test: Dynamic 1000 hrs @ 125°C	Mil-Std 883 Method 1005	77/0	77/0
ESD Human Body Model	Mil-Std 883 Method 3015	3/0	3,000V
ESD Charged Device Model	JEDEC 22-101	3/0	1,000V
Latch-up	EIA/JESD STD-78	6/0	6/0