



Integrated Device Technology, Inc.  
6024 Silver Creek Valley Road, San Jose, CA 95138

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

|  |                          |  |
|--|--------------------------|--|
| <b>PCN #:</b> W0804-01<br><b>Product Affected:</b> IDT70V26, 70V261, 70V27, 70V9269, 70V9279<br><b>Date Effective:</b> 25-Jul-2008 | <b>DATE:</b> 25-Apr-2008 | <b>MEANS OF DISTINGUISHING CHANGED DEVICES:</b><br><input checked="" type="checkbox"/> Product Mark      "W" Prefix on top mark or<br><input type="checkbox"/> Back Mark            product name IDT70V26WL/S,<br><input type="checkbox"/> Date Code                70V261WL/S, 70V27WL/S,<br><input type="checkbox"/> Other                        70V9269WL/S, 70V9279WL/S |
|--|--------------------------|--|

|   |  |
|---|--|
| <b>Contact:</b> Dennis Lantz<br><b>Title:</b> Quality Engineer<br><b>Phone #:</b> (408) 284-4597<br><b>Fax #:</b> (408) 284-1450<br><b>E-mail:</b> <a href="mailto:Dennis.Lantz@idt.com">Dennis.Lantz@idt.com</a> | <b>Attachment:</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><br><b>Samples:</b> Available upon request |
|---|--|

**DESCRIPTION AND PURPOSE OF CHANGE:**

|  |   |
|--|---|
| <input checked="" type="checkbox"/> Die Technology<br><input type="checkbox"/> Wafer Fabrication Process<br><input type="checkbox"/> Assembly Process<br><input type="checkbox"/> Equipment<br><input type="checkbox"/> Material<br><input type="checkbox"/> Testing<br><input type="checkbox"/> Manufacturing Site<br><input type="checkbox"/> Data Sheet<br><input type="checkbox"/> Other | <p>This notification is to advise our customers of the upgrade of process technology from CeMOS 9 to CeMOS 14 on IDT70V26, 70V261, 70V27, 70V9269 and 70V9279. There is no change to data sheet specifications.</p> <p>Attachment I details the qualification data for this change and Attachment II shows the affected list of part numbers.</p> |
|--|---|

**RELIABILITY/QUALIFICATION SUMMARY:**

There is no impact with regards to the package performance or reliability.

**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: _____  | <input type="checkbox"/> <i>Approval for shipments prior to effective date.</i> |
| Name/Date: _____ | E-Mail Address: _____   |
| Title: _____     | Phone # /Fax #: _____   |

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

**IDT ACKNOWLEDGMENT OF RECEIPT:**

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



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### ATTACHMENT I - PCN #: W0804-01

**PCN Type:** Process Technology Upgrade

**Data Sheet Change:** None

**Detail of Change:** This notification is to advise our customers of the upgrade of process technology from CeMOS 9 to CeMOS 14 on IDT70V26, 70V261, 70V27, 70V9269 and 70V9279. There is no change to data sheet specifications.

Table 1 as shown below depicts the comparizon between old and new process technology.

| Description                           | Old     | New      |
|---------------------------------------|---------|----------|
| Die Revision                          | X       | W        |
| Wafer Fab                             | Fab 4   | Fab 4    |
| Fab Technology                        | CeMOS 9 | CeMOS 14 |
| # Poly Layers                         | 3       | 1        |
| # Metal Layers                        | 2       | 6        |
| Minimum Gate Length ( $\mu\text{m}$ ) | 0.35    | 0.13     |
| Die Dimensions ( $\text{mm}^2$ )      | 52.4    | 11.7     |
| Die Dimensions ( $\text{Mil}^2$ )     | 81.2K   | 18.2K    |

Note: All speed grades and package types are affected. Please refer to the ordering information given in the datasheet for specific part number.

**Sample Availability:** Now. Contact sales to request samples.



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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT I - PCN #: W0804-01

**Qualification Plan #:** QSM-0502-01

**Test Vehicle:** 70V27W

**Qualification Test Plan and Result:**

| Test Description   | Test Method (Latest specs in effect) | Test Results<br>SS / Rej |
|--|--------------------------------------|--------------------------|
| High Temperature Operating Life (Dynamic)<br>(+125°C @ 1000 hours or equivalent) | JESD22-A108                          | 116/0                    |
| Highly Accelerated Stress Test<br>*(Biased, @ +130°C, +85%RH, 3 ATM, 100 hours)  | JEDEC STD 22, Method A110            | 45/0                     |
| Autoclave<br>*(2 ATM, Saturated steam @ +121°C, 168 hours)                       | EIA/JESD22-A102                      | 45/0                     |
| Temperature Cycling<br>*(-65°C to +150°C, 500 cycles)                            | JESD22-A104                          | 45/0                     |
| High Temp Storage<br>*(+150°C, 1000 hours)                                       | JESD22-A103                          | 77/0                     |
| ESD: Human Body Model @ 2000 Volts   | MIL-STD 883 Method 3015              | 3/0                      |
| ESD: Charged Device Model @ 500 Volts  | JEDEC 22-101                         | 3/0                      |
| Latch-up<br>(+ - I and V stress, + - 100mA Trigger)                              | EIA/JESD78                           | 6/0                      |

\* Preconditioning per JESD22-A113B Level 3



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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT II - PCN #: W0804-01

#### Affected Part Number

| IDT Part Number | IDT Part Number | IDT Part Number | IDT Part Number |
|-----------------|-----------------|-----------------|-----------------|
| 70V27L15BF      | 70V27S35PF      | 70V26L35G       | 70V9279S9PRF    |
| 70V27L15PF      | 70V27S35PF8     | 70V26L35J       | 70V9279S9PRF8   |
| 70V27L15PF8     | 70V27S55PF      | 70V26L35J8      | 70V9279S7PRF    |
| 70V27L20PF      | 70V27S55PF8     | 70V26L55G       | 70V9279S7PRF8   |
| 70V27L20PF8     | 70V261L25PF     | 70V26L55J       | 70V9279S6PRF    |
| 70V27L25PF      | 70V261L25PF8    | 70V26L55J8      | 70V9279S6PRF8   |
| 70V27L25PF8     | 70V261L25PFI    | 70V26S25J       | 70V9269L12PRF   |
| 70V27L35PF      | 70V261L25PFI8   | 70V26S25J8      | 70V9269L12PRF8  |
| 70V27L35PF8     | 70V261L35PF     | 70V26S35G       | 70V9269L12PRFI  |
| 70V27L35PFI     | 70V261L35PF8    | 70V26S35J       | 70V9269L12PRFI8 |
| 70V27L35PFI8    | 70V261L55PF     | 70V26S35J8      | 70V9269L15PRF   |
| 70V27L55PF      | 70V261L55PF8    | 70V26S55G       | 70V9269L15PRF8  |
| 70V27L55PF8     | 70V261L25PFG    | 70V26S55J       | 70V9269L9PRF    |
| 70V27L20PFI     | 70V261L25PFG8   | 70V26S55J8      | 70V9269L9PRF8   |
| 70V27L20PFI8    | 70V261L25PFGI   | 70V9279L12PRF   | 70V9269S12PRF   |
| 70V27L15PFG     | 70V261L25PFGI8  | 70V9279L12PRF8  | 70V9269S12PRF8  |
| 70V27L20PFGI    | 70V261S25PF     | 70V9279L9PRF    | 70V9269S15PRF   |
| 70V27L20PFGI8   | 70V261S25PF8    | 70V9279L9PRF8   | 70V9269S15PRF8  |
| 70V27L15PFG8    | 70V261S35PF     | 70V9279L7PRF    | 70V9269S9PRF    |
| 70V27S15BF      | 70V261S35PF8    | 70V9279L7PRF8   | 70V9269S9PRF8   |
| 70V27S15PF      | 70V261S55PF     | 70V9279L7PRFI   | 70V9269S6PRF    |
| 70V27S15PF8     | 70V261S55PF8    | 70V9279L7PRFI8  | 70V9269S6PRF8   |
| 70V27S20PF      | 70V26L25J       | 70V9279L6PRF    | 70V9269S7PRFI   |
| 70V27S20PF8     | 70V26L25J8      | 70V9279L6PRF8   | 70V9269S7PRFI8  |
| 70V27S25PF      | 70V26L25JI      | 70V9279S12PRF   | 70V9269S7PRF    |
| 70V27S25PF8     | 70V26L25JI8     | 70V9279S12PRF8  | 70V9269S7PRF8   |