

CYPRESS SEMICONDUCTOR

PRODUCT CHANGE NOTIFICATION

PCN: 000031

DATE: July 26, 2000

Subject: Module, SRAM Device Change.

To:

Category:

Cypress part numbers affected:

CYM9288APZ-60C

Customer part numbers affected:

N/A

Description of change:

A change has been made to the SRAMs populating the device listed above. The CYM9288APZ-60C Module device uses either eight (8) CY7C1352-100AC 256K x 18 NoBL SRAMs (100 TQFP package) or eight (8) CY7C1353-66AC 256K x 18 NoBL SRAMs (100TQFP package).

The revised design, the CYM9288BPZ-60C, will use either eight (8) CY7C1350-100AC 128K x 36 NoBL SRAMs (100TQFP package) or eight (8) CY7C1351-66AC 128K x 36 NoBL SRAMs (100 TQFP package). A resistor option was added to the substrate to allow the module to be either pipeline or flowthrough. The CYM9288BPZ-60C module will always be tied to a flowthrough configuration.

The fit of the module into a system motherboard has not been affected. The module datasheet is being revised to reflect the change. Module device characterization comparisons between the CYM9288APZ-60C modules and the CYM9288BPZ-60C modules are included for review.

Benefit of change:

The unavailability of the CY7C1352/CY7C1353 SRAM necessitated the change to the CY7C1350/CY7C1351 SRAM.

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Qualification status:

Complete. Characterization comparison data of CYM9288APZ-60C module devices built with the CY7C1352/53 SRAMs and CYM9288BPZ-60C module devices built with the CY7C1350/51 SRAMs are attached.

Sample Status:

Samples are available by contacting our local Sales office.

Approximate Implementation Date:

The CYM9288BPZ-60C module will be available Q3/00.

Response Required:

If the cover letter indicates that your company is designated as "Category A or Category C" and there are current orders pending, this form must be signed and returned as soon as possible. If acceptance is not received, delays in shipment may occur.

Category 'C' customers

If no response is received within 90 days change will be incorporated.

Change accepted by: _____ Note: If Change is Not applicable to your facility enter N/A

Print Name: _____ Company: _____

Title: _____ Date: _____

PCN Sent to _____ Company: _____

*Fax signed approval to Jim Townsend at 408-943-4897 or reply by email pcn_adm@cypress.com.
For any additional information regarding this change, contact your local sales representative.*

Sincerely

Jim Townsend
Business Process Manager

CHARACTERIZATION RESULTS COMPARISON BETWEEN CYM9288APZ (USING CY1352/3 SRAMs)									
AND CYM9288BPZ (USING CY1350/51 SRAMs) MODULE DEVICES									
CYM9288A Unit #1 was built with CY7C1353-66AC SRAMs.									
CYM9288A Units #2 and #3 were built with CY7C1352-100AC SRAMs.									
CYM9288B Units #4 and #5 were built with CY7C1351-66AC SRAMs.									
CYM9288B Units #6 and #7 were built with CY7C1350-100AC SRAMs.									
		CYM9288A Unit #1		CYM9288A Unit #2		CYM9288A Unit#3		CYM9288B Unit #4	
PARAMETERS	25dgC	80dgC	25dgC	80dgC	25dgC	80dgC	25dgC	80dgC	
Tcdv	11.2 ns	11.8 ns	11.4 ns	11.8 ns	11.2 ns	11.6 ns	10.8 ns	11.2 ns	
Vol	111.1 mV	118.7 mV	111.1 mV	114.7 mV	110.8 mV	114.1 mV	109.1 mV	113.1 mV	
Voh	3.093 V	3.118 V	3.103 V	3.123 V	3.118 V	3.123 V	3.128 V	3.133 V	
Icc	462.0 mA	487.4 mA	460.4 mA	482.8 mA	489.0 mA	489.9 mA	390.3 mA	394.1 mA	
		CYM9288B Unit #5		CYM9288B Unit #6		CYM9288B Unit #7		SPECIFICATIONS	
PARAMETERS	25dgC	80dgC	25dgC	80dgC	25dgC	80dgC			
Tcdv	10.8 ns	11.2 ns	11.0 ns	11.8 ns	11.2 ns	12.0 ns	12 ns		
Vol	108.1 mV	114.4 mV	95.45 mV	138.2 mV	120.4 mV	159.2 mV	< 400 mV		
Voh	3.133 V	3.138 V	3.138 V	3.143 V	3.138 V	3.148 V	> 2.4 V		
Icc	396.9 mA	397.4 mA	390.3 mA	393.7 mA	384.3 mA	393.4 mA	2400 mA		