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# Cypress Semiconductor Product Qualification Report

QTP# 063807 VERSION\*B  
March 2014

<b>1 Meg Fast Asynchronous SRAM Family C9FD-3R Technology, Fab4</b>	
<b>CY7C106D / CY7C1006D</b>	<b>1-Mbit (256K x 4) Static RAM</b>
<b>CY7C107D / CY7C1007D</b>	<b>1-Mbit (1M x 1) Static RAM</b>
<b>CY7C109D / CY7C1009D</b>	<b>1-Mbit (128K x 8 Static RAM</b>
<b>CY7C1018DV33</b>	<b>1-Mbit (128K x 8) Static RAM</b>
<b>CY7C1019D</b>	<b>1-Mbit (128K x 8) Static RAM</b>
<b>CY7C1019DV33</b>	<b>1-Mbit (128K x 8) Static RAM</b>
<b>CY7C1020D / CY7C1020DV33</b>	<b>512K (32K x 16) Static RAM</b>
<b>CY7C1021D / CY7C1021DV33</b>	<b>1-Mbit (64K x 16) Static RAM</b>
<b>CY7C1399DV33</b>	<b>256K (32K x 8) Static RAM</b>
<b>CY7C194D</b>	<b>256K (64K x 4) Static RAM</b>
<b>CY7C197D</b>	<b>256K (256K x 1) Static RAM</b>
<b>CY7C199D</b>	<b>256K (32K x 8) Static RAM</b>
<b>CY7C185D</b>	<b>64K (8K X 8) Static RAM</b>

**FOR ANY QUESTIONS ON THIS REPORT, PLEASE CONTACT**  
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**PRODUCT QUALIFICATION HISTORY**

<b>Qual Report</b>	<b>Description of Qualification Purpose</b>	<b>Date Comp</b>
052207	C9FD-3R, Fab 4 New Process using CY7C104*D (4Meg Fast Synchronous SRAM) Product Family	Mar 06
063807	Qualify 1 Meg Fast Async Product Family in C9FD-3R Technology, Fab4	Sep 06
071204	Qualify 1 Meg Fast Async Rev. B Masks (MM1, LITRM and DDLICM)	Mar 07
080603	Qualify 1 Meg Fast Async Rev.B Mask DDLIM Fix	Apr 08
114503	Qualify PMM Mask Change for C9 1M Fast Async SRAM in C9FD- 3R Technology in Fab 4	Feb 12

<b>PRODUCT DESCRIPTION (for qualification)</b>	
Purpose: Qualify PMM Mask Change for C9 1M Fast Async SRAM in C9FD- 3R Technology in Fab 4	
Marketing Part #:	CY7C106/7/9D, CY7C1006/7/9D, CY7C1019/20/21D, CY7C1018/9/20/21DV33, CY7C1399DV33, CY7C194/7/9D
Device Description:	1 Megabit Fast Asynchronous SRAM
Cypress Division:	Cypress Semiconductor Corporation –Memory Product Division (MPD)

<b>TECHNOLOGY/FAB PROCESS DESCRIPTION – C9FD-3R</b>			
Number of Metal Layers:	2	Metal Composition:	Metal 1: 100Å Ti / 3200Å Al / 300Å TiW Metal 2: 150Å Ti / 8000Å Al / 300Å TiW
Passivation Type and Materials:	1000Å Oxide TEOS / 9000Å Nitride		
Generic Process Technology/Design Rule (□-drawn):	CMOS, Double Metal, 0.09µm		
Gate Oxide Material/Thickness (MOS):	23Å		
Name/Location of Die Fab (prime) Facility:	Cypress Semiconductor -- Bloomington, MN		
Die Fab Line ID/Wafer Process ID:	Fab4/C9FD-3R		

#### PACKAGE AVAILABILITY

<b>PACKAGE</b>	<b>ASSEMBLY SITE FACILITY</b>
<b>22-Lead PDIP, 24/28-Lead PDIP</b>	MMT (X)
<b>24-Lead SOJ</b>	MMT (X)
<b>28-Lead SOIC/SOJ</b>	MMT (X), JCET-China (JT)
<b>28/44-Lead TSOP</b>	JCET-China (JT)
<b>28/32-Lead SOJ</b>	JCET-China (JT)
<b>32-Lead TSOP</b>	TAIWAN- T, JCET-China (JT)
<b>44-Lead SOJ</b>	JCET-China (JT)

**Note:** Package Qualification details upon request

<b>ELECTRICAL TEST / FINISH DESCRIPTION</b>	
Test Location:	CML-R

**Note:** Please contact a Cypress Representative for other packages availability

MAJOR PACKAGE INFORMATION USED IN THIS QUALIFICATION	
Package Designation:	ZW44
Package Outline, Type, or Name:	44-Lead Thin Small Outline Packages (Type II)
Mold Compound Name/Manufacturer:	Hitachi CEL9200CYRU
Mold Compound Flammability Rating:	NA
Mold Compound Alpha Emission Rate:	N/A
Oxygen Rating Index:	NA
Lead Frame Material:	Copper base
Lead Finish, Composition / Thickness:	NiPdAu
Die Backside Preparation Method/Metallization:	Back grind
Die Separation Method:	100% Saw Through
Die Attach Supplier:	Dexter
Die Attach Material:	QMI 509
Die Attach Method:	Epoxy
Bond Diagram Designation:	10-06664
Wire Bond Method:	Ultrasonic
Wire Material/Size:	Au, 0.8mil
Thermal Resistance Theta JA °C/W:	76.93°C/W
Package Cross Section Yes/No:	N/A
Assembly Process Flow:	001-64160
Name/Location of Assembly (prime) facility:	Cypress Philippines (CML-R)
MSL Level	3
Reflow Profile	260C

### RELIABILITY TESTS PERFORMED PER SPECIFICATION REQUIREMENT

Stress/Test	Test Condition (Temp/Bias)	Result P/F
High Temperature Operating Life Early Failure Rate	AEC-Q100-008 and JESD22-A108 Dynamic Operating Condition, Vcc Max = 3.77V, 150°C	P
High Temperature Operating Life Latent Failure Rate	JESD22-A108 Dynamic Operating Condition, Vcc Max = 3.77V, 150°C	P
Long Life Verification	JESD22-A108 Dynamic Operating Condition, Vcc = 3.77V, 150°C	
High Temperature Steady State Life	JESD22-A108 Static Operating Condition, Vcc Max = 3.77V, 150°C	P
High Accelerated Saturation Test (HAST)	JESD22-A110, 130°C, 3.63V/3.77V, 85%RH Precondition: JESD22 Moisture Sensitivity MSL 3 192 Hrs, 30°C/60%RH+ Reflow, 260°C+0, -5°C	P
Temperature Cycle	MIL-STD-883, Method 1010, Condition C, -65°C to 150°C Precondition: JESD22 Moisture Sensitivity MSL 3 192 Hrs, 30°C/60%RH+ Reflow, 260°C+0, -5°C	P
Pressure Cooker	JESD22-A102, 121°C, 100%RH, 15 Psig Precondition: JESD22 Moisture Sensitivity MSL 3 192 Hrs, 30°C/60%RH+ Reflow, 260°C+0, -5°C	P
High Temperature Storage	JESD22-A103, 150°C, no bias	P
Electrostatic Discharge Human Body Model (ESD-HBM)	2,200V MIL-STD-883, Method 3015.7	P
Electrostatic Discharge Human Body Model (ESD-HBM)	2,200V JEDEC EIA/JESD22-A114	P
Electrostatic Discharge Charge Device Model (ESD-CDM)	JESD22-A101, 500V	P
Age Bond Strength	200°C, 4HRS MIL-STD-883, Method 883-2011	P
Acoustic Microscopy	JEDEC JSTD-020	P
Static Latch up	JESD78, 125C, ± 200/300mA	P
Low Temperature Operating Life Cold Life Test	JESD22-A108 Dynamic Operating Condition, Vcc = 3.77 V, -30 C, f = 4MHz	P

### RELIABILITY FAILURE RATE SUMMARY

Stress/Test	Device Tested/ Device Hours	# Fails	Activation Energy	Thermal AF <sup>3</sup>	Failure Rate
High Temperature Operating Life Early Failure Rate	11, 720 Devices	2	N/A	N/A	171 PPM
High Temperature Operating Life <sup>1,2</sup> Long Term Failure Rate	2,481,000	6*	0.7	170	18 FIT

**Note:**

EFR data was from the GOOBI qualification completed in October 2010.

LFR data was from initial C9 technology/product qualification completed in March 2006 and met Cypress 31 FITs qualification requirement. Process improvements and test screens were implemented to fix and eliminate the defects.

<sup>1</sup> Assuming an ambient temperature of 55°C and a junction temperature rise of 15°C.

<sup>2</sup> Chi-squared 60% estimations used to calculate the failure rate..

<sup>3</sup> Thermal Acceleration Factor is calculated from the Arrhenius equation

$$AF = \exp \left[ \frac{E_A}{k} \left[ \frac{1}{T_2} - \frac{1}{T_1} \right] \right]$$

where:

E<sub>A</sub> = The Activation Energy of the defect mechanism.

k = Boltzmann's constant = 8.62x10<sup>-5</sup> eV/Kelvin.

T<sub>1</sub> is the junction temperature of the device under stress and T<sub>2</sub> is the junction temperature of the device at use conditions.

\* Failures are fixed with reference corrective action (CAR) # 200613035.

## Reliability Test Data

**QTP #: 052207**

<b>Device</b>	<b>Fab Lot #</b>	<b>Assy Lot #</b>	<b>Assy Loc</b>	<b>Duration</b>	<b>Samp</b>	<b>Rej</b>	<b>Failure Mechanism</b>
<b>STRESS: ACOUSTIC-MSL3</b>							
CY7C1041DV33 (7C1341N)	4533793	610553668	CML-R	COMP	15	0	
CY7C1041DV33 (7C1341N)	4536828	610558451	CML-R	COMP	15	0	
CY7C1041DV33 (7C1341N)	4530733	610607229	CML-R	COMP	15	0	
<b>STRESS: AGE BOND STRENGTH</b>							
CY7C1041DV33 (7C1341N)	4533793	610553668	CML-R	COMP	10	0	
CY7C1041DV33 (7C1341N)	4536828	610558451	CML-R	COMP	10	0	
CY7C1041DV33 (7C1341N)	4530733	610607229	CML-R	COMP	10	0	
<b>STRESS: HIGH TEMP DYNAMIC OPERATING LIFE-EARLY FAILURE RATE, 150C, 3.77V, Vcc Max</b>							
CY7C1041DV33 (7C1341N)	4533793	610553668	CML-R	48	1551	0	
CY7C1041DV33 (7C1341N)	4536828	610558451	CML-R	48	1518	1	LI DEFFECT
CY7C1041DV33 (7C1341N)	4530733	610607229	CML-R	48	3314	1	NON-VISUAL
<b>STRESS: HIGH TEMP DYNAMIC OPERATING LIFE-LATENT FAILURE RATE, 150C, 3.77V, Vcc Max</b>							
CY7C1041DV33 (7C1341N)	4533793	610553668	CML-R	80	1544	0	
CY7C1041DV33 (7C1341N)	4533793	610553668	CML-R	500	1542	0	
CY7C1041DV33 (7C1341N)	4536828	610558451	CML-R	80	1516	0	
CY7C1041DV33 (7C1341N)	4536828	610558451	CML-R	500	1514	3	SINGLE BIT & BLOCKED CONTACT
CY7C1041DV33 (7C1341N)	4530733	610607229	CML-R	80	1517	1	LOST REJECT
CY7C1041DV33 (7C1341N)	4530733	610607229	CML-R	500	1511	2	SINGLE BIT
<b>STRESS: LONG LIFE VERIFICATION, 150C, 3.77V, Vcc Max</b>							
CY7C1041DV33 (7C1341N)	4533793	610553668	CML-R	1000	400	0	
<b>STRESS: HIGH TEMPERATURE STEADY STATE LIFE, 150C, 3.77V, Vcc Max</b>							
CY7C1041DV33 (7C1341N)	4530733	610607229	CML-R	80	80	0	
CY7C1041DV33 (7C1341N)	4530733	610607229	CML-R	168	80	0	
<b>STRESS: HIGH TEMPERATURE STORAGE</b>							
CY7C1041DV33 (7C1341N)	4533793	610553668	CML-R	500	50	0	
CY7C1041DV33 (7C1341N)	4533793	610553668	CML-R	1000	50	0	

## Reliability Test Data

QTP #: 052207

Device	Fab Lot #	Assy Lot #	Assy Loc	Duration	Samp	Rej	Failure Mechanism
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**STRESS: ESD-CHARGE DEVICE MODEL, 500V**

CY7C1041DV33 (7C1341N)	4533793	610553668	CML-R	COMP	9	0	
CY7C1041DV33 (7C1341N)	4536828	610558451	CML-R	COMP	9	0	
CY7C1041DV33 (7C1341N)	4530733	610607229	CML-R	COMP	9	0	
CY7C1041D (7C1541N)	4538630	610610603	CML-R	COMP	9	0	
CY7C1049D (7C1549N)	4538680	610611050	CML-R	COMP	9	0	
CY7C1046D (7C1346N)	4538680	610610606	CML-R	COMP	9	0	

**STRESS: ESD-HUMAN BODY CIRCUIT PER JEDEC EIA/JESD22-A114-B, 2,200V**

CY7C1041DV33 (7C1341N)	4533793	610553668	CML-R	COMP	9	0	
CY7C1041DV33 (7C1341N)	4536828	610558451	CML-R	COMP	9	0	
CY7C1041DV33 (7C1341N)	4530733	610607229	CML-R	COMP	9	0	
CY7C1041D (7C1541N)	4530733	610607231	CML-R	COMP	9	0	
CY7C1049D (7C1549N)	4538680	610611050	CML-R	COMP	9	0	
CY7C1046D (7C1346N)	4538680	610610606	CML-R	COMP	9	0	
CY7C1049DV33 (7C1349N)	4538680	610611051	CML-R	COMP	9	0	

**STRESS: ESD-HUMAN BODY CIRCUIT PER MIL STD 883, METHOD 3015, 2,200V**

CY7C1041DV33 (7C1341N)	4533793	610553668	CML-R	COMP	3	0	
CY7C1041DV33 (7C1341N)	4536828	610558451	CML-R	COMP	3	0	
CY7C1041DV33 (7C1341N)	4530733	610607229	CML-R	COMP	3	0	
CY7C1041D (7C1541N)	4530733	610607231	CML-R	COMP	3	0	
CY7C1049D (7C1549N)	4538680	610611050	CML-R	COMP	3	0	
CY7C1046D (7C1346N)	4538680	610610606	CML-R	COMP	3	0	
CY7C1049DV33 (7C1349N)	4538680	610611051	CML-R	COMP	3	0	

**STRESS: STATIC LATCH-UP TESTING, 125C, 6.5V, +/-200mA**

CY7C1041DV33 (7C1341N)	4536828	610558451	CML-R	COMP	3	0	
CY7C1041DV33 (7C1341N)	4530733	610607229	CML-R	COMP	3	0	
CY7C1046DV33 (7C1346N)	4538680	610610605	CML-R	COMP	3	0	
CY7C1049DV33 (7C1349N)	4538680	610611051	CML-R	COMP	3	0	

**STRESS: STATIC LATCH-UP TESTING, 125C, 6.5V, +/-300mA**

CY7C1041DV33 (7C1341N)	4533793	610553668	CML-R	COMP	3	0	
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## Reliability Test Data

QTP #: 052207

Device	Fab Lot #	Assy Lot #	Assy Loc	Duration	Samp	Rej	Failure Mechanism
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**STRESS: STATIC LATCH-UP TESTING, 125C, 8.5V, +/-200mA**

CY7C1049D (7C1549N)	4538680	610611050	CML-R	COMP	3	0	
CY7C1046D (7C1346N)	4538680	610610606	CML-R	COMP	3	0	
CY7C1041D (7C1541N)	4552229	610617290	CML-R	COMP	3	0	

**STRESS: HI-ACCEL SATURATION TEST, 130C, 85%RH, 3.63V, PRE COND 192 HR 30C/60%RH, MSL3**

CY7C1041DV33 (7C1341N)	4533793	610553668	CML-R	128	45	0	
CY7C1041DV33 (7C1341N)	4536828	610558451	CML-R	128	45	0	
CY7C1041DV33 (7C1341N)	4530733	610607229	CML-R	128	45	0	

**STRESS: PRESSURE COOKER TEST, 121C, 100%RH, 15 Psig, PRE COND 192 HR 30C/60%RH, MSL3**

CY7C1041DV33 (7C1341N)	4533793	610553668	CML-R	168	46	0	
CY7C1041DV33 (7C1341N)	4536828	610558451	CML-R	168	50	0	
CY7C1041DV33 (7C1341N)	4536828	610558451	CML-R	288	50	0	
CY7C1041DV33 (7C1341N)	4530733	610607229	CML-R	168	50	0	
CY7C1041DV33 (7C1341N)	4530733	610607229	CML-R	288	50	0	

**STRESS: TC COND. C -65C TO 150C, PRE COND 192 HRS 30C/60%RH, MSL3**

CY7C1041DV33 (7C1341N)	4533793	610553668	CML-R	300	45	0	
CY7C1041DV33 (7C1341N)	4533793	610553668	CML-R	500	45	0	
CY7C1041DV33 (7C1341N)	4533793	610553668	CML-R	1000	45	0	
CY7C1041DV33 (7C1341N)	4536828	610558451	CML-R	300	50	0	
CY7C1041DV33 (7C1341N)	4536828	610558451	CML-R	500	50	0	
CY7C1041DV33 (7C1341N)	4536828	610558451	CML-R	1000	50	0	
CY7C1041DV33 (7C1341N)	4530733	610607229	CML-R	300	50	0	
CY7C1041DV33 (7C1341N)	4530733	610607229	CML-R	500	50	0	

## Reliability Test Data

QTP #: 063807

Device	Fab Lot #	Assy Lot #	Assy Loc	Duration	Samp	Rej	Failure Mechanism
<b>STRESS: ACOUSTIC-MSL3</b>							
CY7C1021DV33 (7C1321N)	4533793	610554885	CML-R	COMP	9	0	
<b>STRESS: AGE BOND STRENGTH</b>							
CY7C1021DV33 (7C1321N)	4533347	610517618	CML-R	COMP	10	0	
<b>STRESS: ESD-CHARGE DEVICE MODEL, 500V</b>							
CY7C1021DV33 (7C1321N)	4617244	610646792	CML-R	COMP	9	0	
<b>STRESS: ESD-HUMAN BODY CIRCUIT PER JEDEC EIA/JESD22-A114-B, 2,200V</b>							
CY7C1021DV33 (7C1321N)	4617244	610646792	CML-R	COMP	9	0	
<b>STRESS: ESD-HUMAN BODY CIRCUIT PER MIL STD 883, METHOD 3015, 2,200V</b>							
CY7C1021DV33 (7C1321N)	4617244	610646792	CML-R	COMP	3	0	
<b>STRESS: STATIC LATCH-UP TESTING, 125C, 6.5V, +/-200mA</b>							
CY7C1021DV33 (7C1321N)	4617244	610646792	CML-R	COMP	3	0	
<b>STRESS: HIGH TEMP DYNAMIC OPERATING LIFE-EARLY FAILURE RATE, 150C, 3.77V, Vcc Max</b>							
CY7C1021DV33 (7C1321N)	4617244	610646791	CML-R	48	3392	1	SINGLE BIT
<b>STRESS: HI-ACCEL SATURATION TEST, 130C, 85%RH, 3.63V, PRE COND 192 HR 30C/60%RH, MSL3</b>							
CY7C1021DV33 (7C1321N)	4533793	610554885	CML-R	128	45	0	
CY7C1021DV33 (7C1321N)	4533793	610554885	CML-R	256	45	0	
<b>STRESS: HIGH TEMPERATURE STORAGE</b>							
CY7C1021DV33 (7C1321N)	4533347	610517618	CML-R	500	50	0	
CY7C1021DV33 (7C1321N)	4533347	610517618	CML-R	1000	50	0	
<b>STRESS: PRESSURE COOKER TEST, 121C, 100%RH, 15 Psig, PRE COND 192 HR 30C/60%RH, MSL3</b>							
CY7C1021DV33 (7C1321N)	4533793	610554885	CML-R	168	50	0	
CY7C1021DV33 (7C1321N)	4533793	610554885	CML-R	288	50	0	
CY7C1021DV33 (7C1321N)	4533793	610554885	CML-R	500	45	0	
<b>STRESS: TC COND. C -65C TO 150C, PRE COND 192 HRS 30C/60%RH, MSL3</b>							
CY7C1021DV33 (7C1321N)	4533793	610554885	CML-R	300	50	0	
CY7C1021DV33 (7C1321N)	4533793	610554885	CML-R	500	50	0	
CY7C1021DV33 (7C1321N)	4533793	610554885	CML-R	1000	49	0	
<b>STRESS: LOW TEMP DYNAMIC OPERATING LIFE, -30C, 3.77V, 4MHz</b>							
CY7C1021DV33 (7C1321N)	4533347	610517618	CML-R	500	45	0	

## ***Reliability Test Data***

QTP #: 071204

<b><i>Device</i></b>	<b><i>Fab Lot #</i></b>	<b><i>Duration</i></b>	<b><i>Results</i></b>	<b><i>Failure Mechanism</i></b>
<b><i>STRESS: E-TEST YIELD</i></b>				
7C1021P (Rev. B)	4635387	COMP	COMPARABLE	
7C1021P (Rev. B)	4702461	COMP	COMPARABLE	

## Reliability Test Data

QTP #: 080603

<i>Device</i>	<i>Fab Lot #</i>	<i>Assy Lot #</i>	<i>Assy Loc</i>	<i>Duration</i>	<i>Samp</i>	<i>Rej</i>	<i>Failure Mechanism</i>
<b>STRESS: HIGH TEMP DYNAMIC OPERATING LIFE-EARLY FAILURE RATE, 150C, 3.77V, Vcc Max</b>							
CY7C1021DV33 (7C1321N)	4752088	610807402	CML-R	48	3923	0	
CY7C1021DV33 (7C1321N)	4752088	610807403	CML-R	48	3904	2	LTIR Short 080603-1BE1
CY7C1021DV33 (7C1321N)	4752088	610807404	CML-R	48	3893	0	

## Reliability Test Data

QTP #: 114503

Device	Fab Lot #	Assy Lot #	Assy Loc	Duration	Samp	Rej	Failure Mechanism
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**STRESS: E-TEST**

7C1021PC	4140242	N/A	N/A	COMP	COMPARABLE		
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**STRESS: SORT YIELD**

7C1021PC	4140242	N/A	N/A	COMP	COMPARABLE		
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## Document History Page

Document Title: QTP 063807: 1 Meg Fast Asynchronous SRAM Family C9FD-3R Technology, Fab4  
Document Number: 001-76197

Rev.	ECN No.	Orig. of Change	Description of Change
**	3528439	NSR	Initial spec release. Original latest qualification report is posted in memo HGA-601. Added QTP 114503 data.
*A	3920284	JYF	Removed Version 5.0 in QTP# 063807 title page; Deleted obsolete referenced spec 11-20047 in Major Package Information Table and replaced with 001-64160; Deleted INDNS-O and CML-R in Assembly Site Facility Table and replaced with JCET-China (JT); Updated Reliability Test Performed Table: -Deleted "3IR" in reflow step of HAST, PCT and TCT -Deleted Cypress' referenced specs and replaced with industry standards -Deleted Current Density (internal requirement only)
*B	4430502 3	HSTO	Align qualification report based on the new template in the front page
*C	4678942	HSTO	Align qualification report based on the new template in the front page

Distribution: WEB

Posting: None