

Date Created: 4/20/2004  
Date Issued: 4/27/2004  
PCN # 20041603

DESIGN/PROCESS CHANGE NOTIFICATION -- FINAL

This is to inform you that a design and/or process change will be made to the following product(s). This notification is for your information and concurrence.

If you require data or samples to qualify this change, please contact **Fairchild Semiconductor within 30 days of receipt of this notification.**

If you have any questions concerning this change, please contact:

Name: SONG, HEEYUNG  
E-Mail: HEEYUNG.SONG@notes.fairchildsemi.com  
Phone: 82-32-680-1216

PCN Originator

Name: SONG, HEEYUNG  
E-mail: HEEYUNG.SONG@notes.fairchildsemi.com  
Phone: 82-32-680-1216

REL Engineer

Name: LEE, BYOUNGHYUN  
E-mail: BYOUNGHYUN.LEE@notes.fairchildsemi.com  
Phone: 82-32-680-1426

PCN Type: Mold Compound

Effectivity

Expected 1st Device Shipment Date: 7/26/2004  
Earliest Year/Work Week of Changed Product: 0431  
(Note: Package marking may differ from this format)

Product ID (Description):

All FPS devices packaged in TO-220F-5L

Description of Change:

Fairchild will change the epoxy molding compound model.  
Epoxy molding compound model will be changed from ST7100HS to KTMC3097SM

Effect of Change:

There will be no impact to the functionality or electrical characteristics of this device.

Qualification:

The qualification plan is intended to meet all our criteria for qualifying an epoxy molding compound model and the overall quality and reliability of our products.

Qual/REL Plan Numbers

Additional Qualification Data

\* The FS6M0765RTC is a representative device for this reliability test results.

Item	Test condition	Sample Size	Result	Test Hour
HTRB	Ta=125C, Vdd=520V	77ea	0/77ea	1000hrs
HTOL	Ta=125C, Vdd=100V	77ea	0/77ea	1000hrs
HTSL	Ta=150C	77ea	0/77ea	1000hrs
THBT	Ta=125C, Vdd=10V	77ea	0/77ea	1000hrs
ACLV	Ta=121C, 15psg	77ea	0/77ea	96hrs
TMCL	- 65? (10min) ? 150? (10min)	77ea	0/77ea	500cys

Affected FSIDs

FS6M07652RTCSYD  
FS6M07652RTSYDT  
FS6M12653RTCSYD  
FS6S0965RTTU  
FS6X1220RTYDTU  
FSCQ1565RTYDTU  
KA5Q0740RTTU  
KA5Q0765RTHYDTU  
KA5Q12656RTTU  
KA5S09654QTYDTU

FS6M07652RTCTU  
FS6M07652RTTU  
FS6M12653RTCTU  
FS6S0965RTYDTU  
FSCQ0765RTTU  
KA5Q0565RTTU  
KA5Q0740RTYDTU  
KA5Q0765RTTU  
KA5Q12656RTYDTU

FS6M07652RTCYDT  
FS6M07652RTYDTU  
FS6M12653RTCYDT  
FS6X1220RTTU  
FSCQ0765RTYDTU  
KA5Q0565RTYDTU  
KA5Q0765RHTTU  
KA5Q0765RTYDTU  
KA5S09654QTTU