



June 19, 2013
PPCN #130014

PROCESS/ PRODUCT CHANGE NOTIFICATION

This is to inform you that Micrel is obsoleting the MIC2586, a hotswap controller.

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

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TYPE OF CHANGE

The MIC2586 is being obsoleted. The lifetime build will be fulfilled with revision D of the device. Previous shipments were Revision C. Revision D corrects a start-up problem in Revision C. Revision D was fully qualified. Alternatively customers can migrate to the MIC2587 in a smaller 8 pin SOIC.

EFFECTIVITY

Final order for EOL parts will be accepted from now until Dec 3, 2013. Final shipment for EOL parts is no later than June 30, 2014. A special part number, SPN, may be assigned to products built for the lifetime buy. The parts shipped by Micrel during these dates will be non-returnable to Micrel and will be built with revision D silicon. Revision D silicon products are built with the same Fab and assembly technologies and locations, packed and delivered with the same format as was Revision C.

PRODUCT ID (DESCRIPTION)

MIC2586-2YM
MIC2586-1YM
MIC2586R-1YM
MIC2586R-2YM

DESCRIPTION OF CHANGE

The MIC2586 is being obsoleted. The lifetime buy will be fulfilled with Revision D which fixes a start-up issue in Revision C.

EFFECT OF CHANGE

Revision D silicon products are built with the same Fab and assembly technologies and locations, packed and delivered with the same format as was Revision C. Revision D was qualified and the report is attached. The gate pin on 1/3 devices failed 500V Human Body model (HBM) ESD testing. There were no failures at higher voltages. We consider all integrated circuits as ESD sensitive,



QUALIFICATION

RELIABILITY REPORT

DATE : 5/06/2013

QUALITY ENG :	PART NUMBER :
H.GRIMM	MIC2587 : Single Channel Positive-High Voltage Hot Swap Controller MIC2586 :

RELIABILITY RATINGS :

ESD RATINGS	LATCH UP RATINGS	MOISTURE SENSITIVITY	PACKAGE THERMAL (Theta JA)	ASSEMBLY LOC	FAB LOCATION & PROCESS
3000V HEM 200V MM	I/O TRIGGER@ +/-200mA, O/V TEST@ ABS MAX VCC OR 1.5X VCC	SOIC-8L SOIC-14L	SOIC-8L : 160°C/W	UNISEM	SAN JOSE, BCD2 process

QUALIFICATION RESULTS

TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT NUMBER	168 HR Rej/ss	1000 HR Rej/ss	2000 HR Rej/ss	
HTOL High Temperature Operating Life Test	JESD-22, Method A108 TJ= + 125°C, VCC = 80V	1208	AA49621MNE	0/77	0/77	0/77	MIC2586
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT NUMBER	STRESS	RESULT Rej/ss	COMMENTS	
ESD-HBM	TA = +25°C R = 1500 Ohms C = 100 pF 1X +/- Voltage	1208	BA04324MNE	+/-500V +/-1000V +/-1500V +/-2000V +/-3000V	0/3 0/3 0/3 0/3 0/3	MIC2587	
		1208DH	AA49621MNE	+/-500V +/-1000V +/-1500V +/-2000V +/-3000V	1/3 0/3 0/3 0/3 0/3	MIC2586	
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT NUMBER	STRESS	RESULT Rej/ss	COMMENTS	
ESD-MM	TA = +25°C R= Zero Ohm C= 200pF 1X +/- Voltage	1208	BA04324MNE	+/-100V +/-150V +/-200V +/-300V	0/3 0/3 0/3 0/3	MIC2587	
		1208DH	AA49621MNE	+/-100V +/-150V +/-200V +/-300V	0/3 0/3 0/3 0/3	MIC2586	
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT NUMBER	STRESS	RESULT Rej/ss	COMMENTS	



LATCH-UP	JESD-78 TA = +25°C I/O TRIGGER @ +/- 200mA O/V TEST @ ABS MAX VCC OR 1.5X VCC	1208 1208DH	BA04324MNE AA49621MNE	I/O LU O/V LU I/O LU O/V LU	0/10 0/10	
FLAMMABILITY	UL-94V-0 Certified	All mold compounds used by Micrel meet this standard. See the UL website on-line list of material flammability certifications. Micrel requires a Certificate of Compliance from the assembly house and we verify the certifications on the web.				

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June 19, 2013

Micrel LPS EOL Policy

Dear Customer,

This letter is to inform you of our general policy of End-of-Life (EOL) of products that are being discontinued. The products being discontinued are:

MIC2586-1BM	MIC2586-1YM
MIC2586-2BM	MIC2586-2YM
MIC2586R-1BM	MIC2586R-1YM
MIC2586R-2BM	MIC2586R-2YM

- **Micrel is committed to product support**

- Commercial grade: Minimum of 5 years
- Industrial grade: Minimum of 10 years
- Automotive grade: Minimum of 15 years

- **EOL policy is 6-month notice for last buy and 6-month for last shipment**

- Example:

- Final order for EOL parts will be accepted from now until December 3, 2013.
- Final shipment for EOL parts is no later than June 30, 2014.
- The lifetime buy will be fulfilled with Revision D which fixes a start-up issue in Revision C. Please see PPCN #130014 for more details.
- A special part number, SPN, may be assigned to products built for the lifetime buy.
- A non-cancellable, non-returnable (NCNR) PO placed within the 6-month notice period.
- Minimum order amount/quantity of \$1K/3K (whichever is least value) is required.
- Exception: if the fab/test house can no longer support the EOL product, Micrel will offer one final opportunity to purchase the EOL product; NOTE: Not subject to 6-month notice/6-month shipping conditions (above).

Order and delivery inquiries with regard to this notice should be directed to your local Micrel Sales Representative or Distributor. We appreciate your business and hope our LPS products will continue serving your needs.

Sincerely,

Barr Karagozlu

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