

Macronix
Process Change Notification (PCN)

MX25L3205D
(3V, 32Mb, Serial Flash)

Date Issued : Jan, 2008

Issued by : PM/ Memory SBU

S/N:F-PCN0020

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MACRONIX
INTERNATIONAL CO., LTD.

Dear Macronix Customer,

Macronix is introducing the 2nd generation of 32Mb serial flash products. Macronix has shrunk the die size from 0.25um to 0.13um in order to continue to offer our customers the most advanced and cost effective products.

In order to achieve better performance, reliability, and cost structure, Macronix is introducing the “D” revision of 32Mb serial flash products on our advanced 0.13um technology.

Samples are available now, and mass production is planned starting in January of 2008.

The MX25L3205D device is identical in form, fit and function to the previous generation MX25L3205A product. Additional functions added in this version are - dual I/O read, secured 512-bit OTP and multiple write protection. However, the parallel mode programming feature and the additional 4Kb sector have been removed from this version since most customers were not utilizing these features in the last version.

Macronix requests that you kindly qualify the new version as quickly as possible in order for us to continue supporting you without interruption.

Thank you

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Feature Comparison Table

Part No.	MX25L3205A	MX25L3205D
Process	0.25um NBit	0.13um FG
VCC range	2.7V ~ 3.6V	2.7V ~ 3.6V
Read Speed	20MHz (Normal Read) / 50MHz (Fast Read)	33MHz (Normal Read) / 86MHz (Fast Read)
Icc Standby	50uA (max.)	20uA (max.)
Active Read Current	30mA (max, @50MHz)	25mA (max, @86MHz)
Active Write Current (Erase/Program)	38mA (max.)/30mA (max.)	20mA (max.)
Chip Erase Time	64sec (typ.) / 128sec (max.)	25sec (typ.) / 50sec (max.)
Block Erase Time (64KB)	1sec (typ.) / 3sec (max.)	0.7sec (typ.) / 2sec (max.)
Sector Erase Time (4KB)	Not Available	90ms (typ.) / 300ms (max.)
Page Programming time	3ms (typ.) / 12ms (max.)	1.4ms (typ.) / 5ms (max.)
Parallel Programming Mode	Available	Not Available
Additional 4Kb sector	Available	Not Available
Package Type	16-SOP (300mil) / 8-SON (8x6mm)	8-SOP (200mil) / 16-SOP (300mil) / 8-PDIP (300mil) / 8-WSON (6x5mm)
Additional Functions	MX25L3205A	MX25L3205D
Dual I/O read@50MHz	Not Available	Available
Secured 512-bit OTP	Not Available	Available
Mutiple write protection	N/A, only standard write protection	Available

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Part Numbering Change

MX25L3205A	MX25L3205A
16-SOP	8x6mm 8-SON
MX25L3205AMC-20	MX25L3205AZMC-20G
MX25L3205AMC-20G	MX25L3205AZMI-20G
MX25L3205AMI-20	
MX25L3205AMI-20G	



MX25L3205D	MX25L3205D	MX25L3205D
8-SOP(200mil)	16-SOP	6x5mm 8-WSON*
MX25L3205DM2I-12G	MX25L3205DMI-12G	MX25L3205DZNI-12G

* MX25L3205D will offer a smaller 8-WSON (6x5mm) package which will replace the 8-SON (8x6mm) package currently offered on the MX25L3205A.

Conversion Schedule

➤ “D” version samples available:	Now
➤ “D” version mass production is estimated to start shipping on:	1 st of Jan. 2008
➤ “A” version last order placement date:	30 th of Jun. 2008
➤ “A” version final shipment date:	31 st of Dec. 2008

Macronix Recommendations:

- Macronix requests that you qualify the new D version samples now. This will allow Macronix to continue supporting you without interruption
- Datasheets are available on our website (www.macronix.com)