

Macronix
Process Change Notification(PCN)

KH29LV320D
(3V, 32M, Parallel Flash)

Date Issued : June, 2008

Issued by : Sales/KH Brand

Dear Macronix Customer,

Macronix is introducing the 4th generation of 32Mb parallel flash product. Macronix has shrunk the die size from 0.15um to 0.13 um 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 parallel flash products on our advanced 0.13um Technology.

Product is available in samples and mass production now.

The KH29LV320D device is identical in form, fit and function to the previous generation KH29LV320C product. Additional functions added in this version are – Hardware write protection and accelerated program capability.

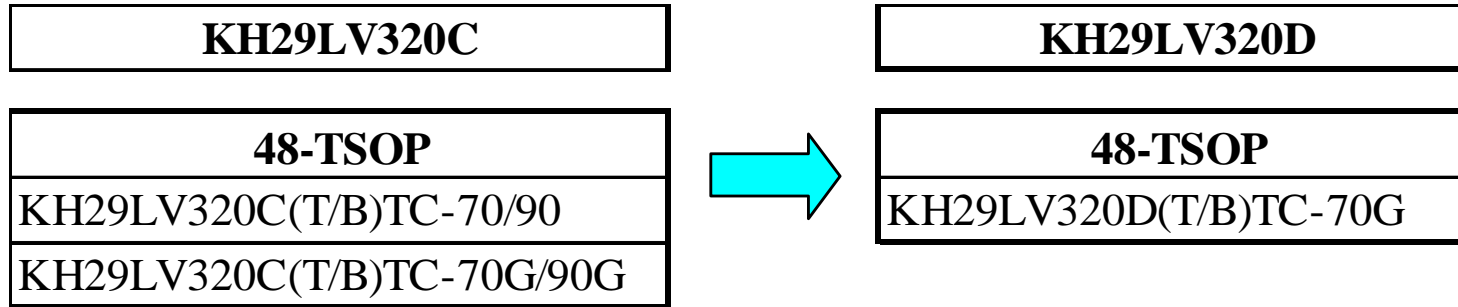
Macronix requests that you kindly qualify the new version as quickly as possible in order for us to continue supporting you without interruption.

Thank you

□ Feature Comparison table

Part No.	KH29LV320C	KH29LV320D	Remark
Process	0.15um FG	0.13um FG	
VCC range	2.7V ~ 3.6V	2.7V ~ 3.6V	
Read Speed	70ns / 90 ns	70 ns	
CFI Query	Yes	Yes	
Icc Standby	15uA(max.)	15uA(max.)	
Active Read Current	16mA(max, @5MHz)	16mA(max, @5MHz)	
Active Write Current (Erase/Program)	30mA (max.)	30mA (max.)	
Very High Voltage for hardware Voltage for Automatic Select and Temporary Sector Unprotect	11.5V(min.) / 12.5V (max.)	9.5V(min.) / 10.5V (max.)	Symbol "VID" for LV320C Symbol "Vhv" for LV320D
Low Vcc Lock-out Voltage	1.4V (min.) / 2.1V (max.)	2.3V (min.) / 2.5 (max.)	
Chip Erase Time	35sec (typ.) / 50sec (max.)	35sec (typ.) / 50sec (max.)	
Sector Erase Time	0.9sec (typ.) / 15sec (max.)	0.7sec (typ.) / 2sec (max.)	
Chip Programming time (word mode)	24sec(typ.) / 72sec (max.)	24sec(typ.) / 72sec (max.)	
Word Program Time	11us (typ.) / 360us (max.)	11us (typ.) / 360us (max.)	
Package Type	48-TSOP	48-TSOP	

Part Numbering Change



Conversion Schedule

➤ “D” version sample available	Now
➤ “D” version mass production:	6 th of Mar., 2008
➤ Old version last order placement date:	31 st of Jun., 2009
➤ Old version final shipment date:	30 th of Apr., 2009

Macronix Recommendations:

- **Macronix requests that qualify new D version sample now. This will allow Macronix to continue supporting you without interruption.**
- **Datasheets are available on KH brand website (www.macronix.com.hk)**