

Date: March 15, 2006 (*Update*)

Subject: *Hynix CMOS 0.5 μm 1P3M Wafer Fab Reliability Report - PI3L301D*

A total of 134 units successfully completed Dynamic High Temperature Operating Life (DHTOL) test with no failures for the PI3L301D device type. The units were tested for 3000 hours at a temperature of 150°C. This device is manufactured at our wafer fabrication subcontract supplier Hynix in Korea, using their 0.5-micron, 1Poly/3Metal, CMOS process. This product and others that use the same process therefore meet Pericom's Die Qualification requirements to an LTPD of 3 sampling plan, max accept number of 1. The device also passed HAST testing and Temperature Cycle as shown in the table below.

The equivalent FIT rate is 32 for any devices using the same process and design rules, with an MTBF of 402,000 hours. The calculation was made using the Arrhenius equation, with an Activation energy of 0.5 eV, an assumed system operating temperature of 55 °C, and a Confidence factor of 60%.

Pericom's Process Qualification Test results:

Rel Lot #	Device Type	Pkg. Type	Date Code	Stress Test	Sample Units	Test Start	Test Stop	Stress Duration	Results Pass/Fail
Q03001-1A	PI3L301DV	V48	A20303AOG	DHTOL	135	01/23/03	01/30/03	168 hrs	135/0
Q03001-1A	PI3L301DV	V48	A20303AOG	DHTOL	135	02/05/03	02/18/03	500 hrs	135/0
Q03001-1A	PI3L301DV	V48	A20303AOG	DHTOL	135	02/19/03	03/12/03	1000 hrs	134/0*
Q03001-1A	PI3L301DV	V48	A20303AOG	DHTOL	134	03/14/03	04/28/03	1000 hrs	134/0
Q03001-1A	PI3L301DV	V48	A20303AOG	DHTOL	134	05/01/03	06/12/03	1000 hrs	134/0
Q03002-1A	PI3L301DA	A48	A20252AOG	HAST	80	01/23/03	01/27/03	96 hrs	80/0
Q03002-2A	PI3L301DA	A48	A20252AOG	TMCL	76	01/23/03	01/28/03	200 cycles	76/0

**Note: One device could not be electrically tested after 1000 hours of DHTOL because the select pin broke off at the package interface due to a miss-feed in the ATE test handler.*

Other generically equivalent Pericom products currently using the same design rules and process technology are:

PI3L110, 3L500, & 3L510

PI3USB10, 3USB 14, 3USB20, & 3USB40

PI3DBV10, 3DBV14, 3DBV20, & 3DBV40

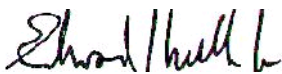
PI3CH200, 3CH 281, 3CH360, 3CH400, 3CH401, 3CH480, 3CH800, 3CH1000, & 3CH1010

PI3V312, 3V314, 3V512, & 3V514

PI6C101 & PI6C1851

If there are any questions about this qualification report, please contact the undersigned.

Regards,



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