



MPC740ARX/750ARX RELIABILITY DATA SUMMARY

MPC740ARX__H Information

Fab: MOS13, Austin, TX
 Mask: J20M
 Process: HiP3L, 0.29 μ
 Package: 255 pin CBGA
 Assy: BAT-1, Austin, TX

XPC750ARX__H Information

Fab: MOS13, Austin, TX
 Mask: J20M
 Process: HiP3L, 0.29 μ
 Package: 360 pin CBGA
 Assy: BAT-1, Austin, TX

TECHNOLOGY: HiP3.X, Data Summary for 1Q97-4Q98

DYNAMIC LIFETEST (3.1V, 125°C ambient)

168 HRS	504 HRS	1008 HRS	2016 HRS
2 / 4215	3 / 2573	0 / 1208	/

168 Hr: 1 - BIST, 1 - ISTAT Cache Only; Not Analyzable

504 Hr: 3 - Functional; Not Analyzable

ESD (HBM)

1KV	2KV
/	0 / 4

ESD (MM)

100V	200V
/	0 / 2

ESD (CDM)

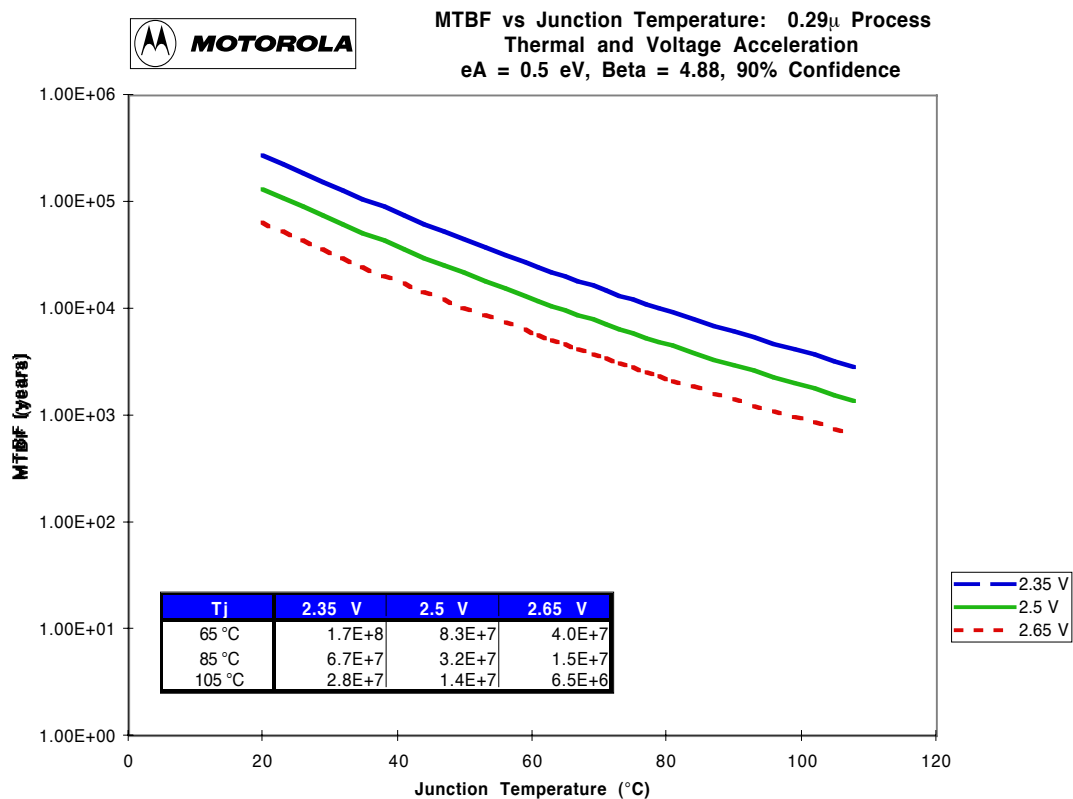
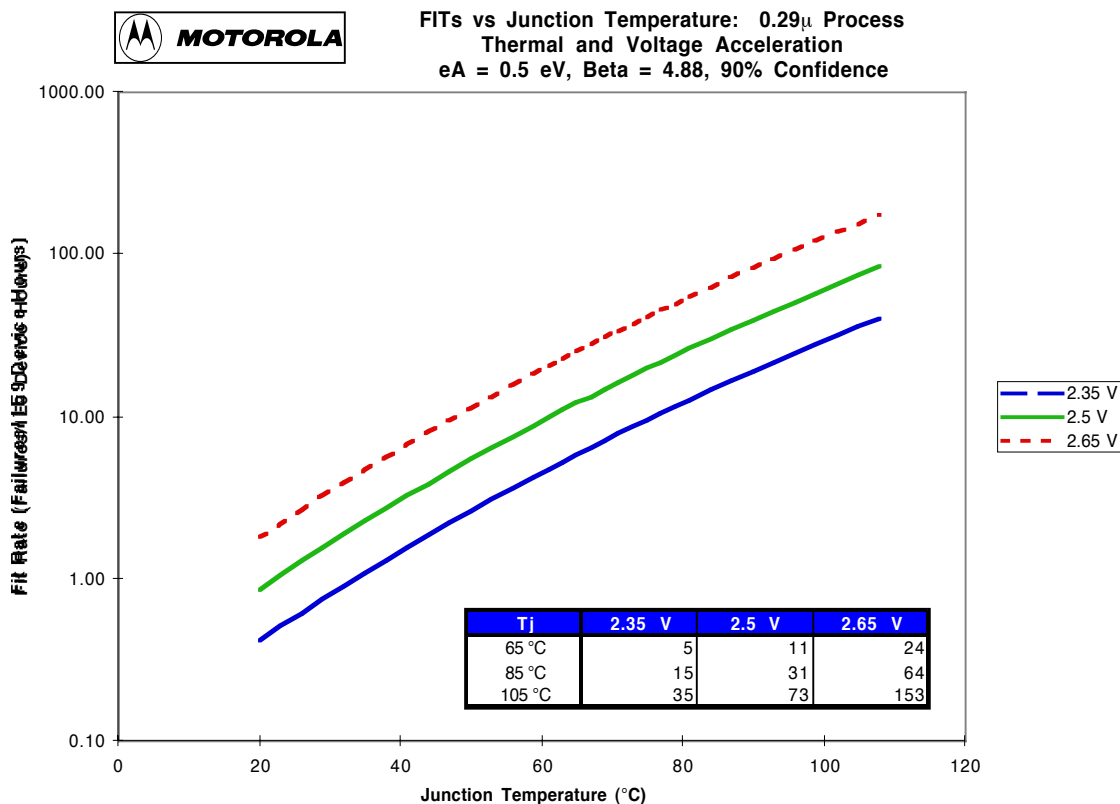
500V	1KV
/	0 / 2

LATCHUP

150 mA	200 mA
/	0 / 4

MPC740ARX/750ARX RELIABILITY DATA SUMMARY

TECHNOLOGY FAILURE RATES - HiP3.X





MPC740ARX/750ARX RELIABILITY DATA SUMMARY

PACKAGE: 255 Pin 21 x 21mm CBGA
Data Summary 3Q96 - 3Q97

MOISTURE CZ
PRECOND MSL1
0 / 15

TEMPERATURE CYCLING (0°C/100°C)

PRECOND MSL1	100 CYC	500 CYC	1000 CYC
0 / 480	0 / 480	0 / 480	0 / 165

TEMPERATURE CYCLING (-55°C/+125°C)

PRECOND MSL1	100 CYC	500 CYC	1000 CYC
0 / 1470	0 / 1470	0 / 1470	0 / 445

THERMAL SHOCK (-55°C/+125°C)

PRECOND MSL1	100 CYC	500 CYC	1000 CYC
0 / 1041	1 / 1041	1 / 679	0 / 739

AUTOCLAVE (+121°C, 15 PSIG)

PRECOND MSL1	48 HRS	144 HRS
0 / 1313	1 / 1313	0 / 1312

THB (+85°C/85% RH/3.3V)

PRECOND MSL1	168 HRS	504 HRS	1008 HRS
0 / 166	0 / 166	0 / 166	0 / 166

BAKE (150°C)

	168 HRS	504 HRS	1008 HRS
	0 / 231	0 / 231	0 / 231



MPC740ARX/750ARX RELIABILITY DATA SUMMARY

PACKAGE: 360 Pin 25 x 25mm CBGA
Data Summary 3Q96 - 3Q97

MOISTURE CZ
PRECOND MSL1
0 / 15

TEMPERATURE CYCLING (-55°C/+125°C)

PRECOND MSL1	100 CYC	500 CYC	1000 CYC
0 / 1536	0 / 1536	0 / 1536	0 / 511

THERMAL SHOCK (-55°C/+125°C)

PRECOND MSL1	100 CYC	500 CYC	1000 CYC
0 / 1041	1 / 1041	1 / 679	0 / 739

AUTOCLAVE (+121°C, 15 PSIG)

PRECOND MSL1	48 HRS	144 HRS
0 / 1379	1 / 1379	0 / 1378

THB (+85°C/85% RH/3.3V)

PRECOND MSL1	168 HRS	504 HRS	1008 HRS
0 / 166	0 / 166	0 / 166	0 / 166

BAKE (150°C)

	168 HRS	504 HRS	1008 HRS
	0 / 231	0 / 231	0 / 231