MOTOROLA Semiconductor Products Sector

MPC7450 V'ger
MOS 13 HiP6L
Rev. 2.0.2 - 2.3
High Temperature Operating Life Data Report
PowerPC Host Processor

XPC7450 Product Information:

Product / Technology / Fab / Package Description	
Package	483 CBGA, 25 x 25 mm
Device	XPC7450 V'ger
Mask Set's	Z73K51S, Z74K51S, Z54K51S, Z84K51S, Z64K51S, Z86K51S
Name/Location of Die Fab Facility	MOS 13 / Austin TX
Process Technology	HiP6L .15um ± 0.05 um
Poly / Metal layers	1P / 6M
Assembly Location	BAT-1 / Austin TX
Moisture Sensitivity Level	MSL1

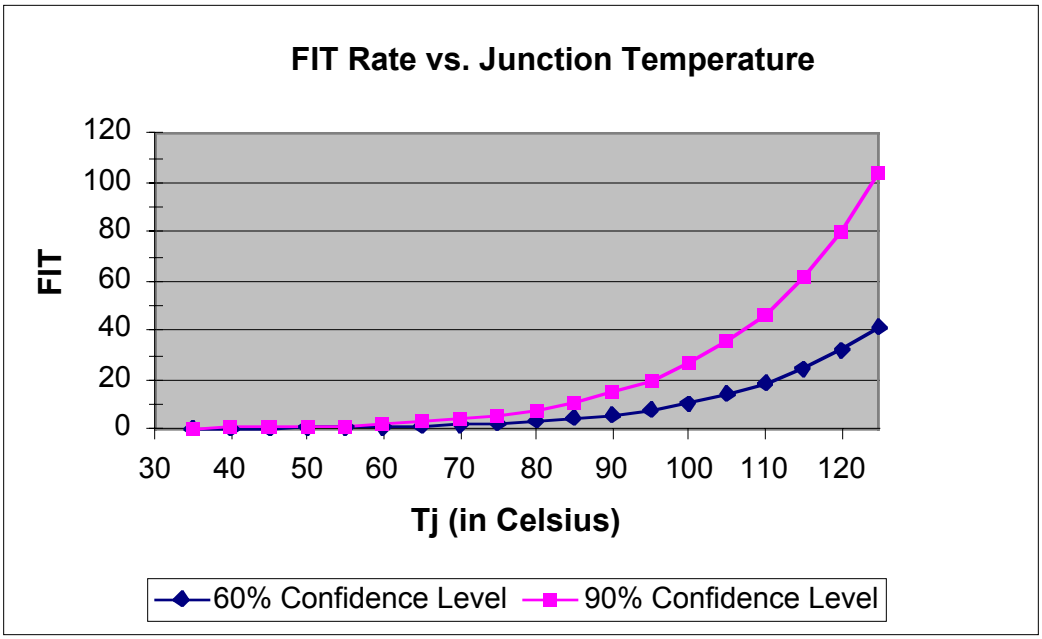
XPC7450 V'ger Node2 Transistor Product Reliability Data Summary:

HTOL / Vdd = 2.35V, 90ºC Ambient				
Lot / Revision / Quarter	**168 Hours**	**504 Hours**	**1008 Hours**	**Failure Comments**
D34576 / 2.0.2 / Q1	0 / 285			
D34840 / 2.0.2/ Q1	0 / 122			
D35259 / 2.0.2/ Q1	0 / 233			
D4063 8 / 2.1 / Q2	0 / 133			
D54941 / 2.1 / Q2	0 / 209			
D37448 / 2.1 / Q3	0 / 102	0 / 102	0 / 102	
D37517 / 2.1 / Q3	0 / 290	0 / 290	0 / 290	
D38190 / 2.1 / Q3	0 / 95	0 / 95	0 / 95	
Totals	**0 / 1469**	**0 / 487**	**0 / 487**	

XPC7450 V'ger Node3 Transistor Product Reliability Data Summary:

HTOL / Vdd = 2.35V, 90ºC Ambient				
Lot / Revision / Quarter	**168 Hours**	**504 Hours**	**1008 Hours**	**Failure Comments**
D41900 / 2.1 / Q3	0/100			
D41900.83A / 2.1 / Q3	0 / 95A			A: 1 open. Root Cause due to Non-wet. Package (C4) related.
D41944.88R / 2.1 / Q3	0 / 94			
D41944. 90C/ 2.1 / Q3	0 / 98			
D41944.89X/ 2.1 /Q3	0 / 98			

D32275 / 2.1 / Q4	0 / 915			
D42588.87H / 2.1 / Q102	0 / 216	0 / 216		
D43275.93H / 2.1 / Q102	0 / 216	0 / 216		
D43284.92H / 2.1 / Q102	0 / 216	0 / 216		
D43918.91Y / 2.1 / Q102	0 / 216	0 / 216		
Totals	**0 / 2264**	**0 / 864**		



XPC7450 V'ger Additional Reliability Support Data Summary:

HTOL / Vdd = 2.35V, 90°C Ambient				
Lot / Revision / Quarter	**12 Hours**	**24 Hours**	**48 Hours**	**Failure Comments**
D36185/ 2.0.2 / Q1	0 / 541	0 / 541	0 / 541	
D35497/ 2.0.2 / Q1	0 / 628	0 / 628	0 / 628	
D36183/ / 2.0.2 / Q1	0 / 410	0 / 410	0 / 410	

D35064/ 2.0.2 / Q1	0 / 309	0 / 309	0 / 309	
D34609/ 2.0.2 / Q1	0 / 278	0 / 278	0 / 278	
D35063/ 2.0.2 / Q1	0 / 208	0 / 208	0 / 208	
Totals	**0 / 2374**	**0 / 2374**	**0 / 2374**	

Revision History:

Revision History			
Revision	Date*	Comment	Author
A	1/22/2002	Summarized V'ger HTOL Data into standard format.	Keith Minwell