

**RELIABILITY MONITOR REPORT
FOR**

TO Package

Dallas Semiconductor

**4401 South Beltwood Parkway
Dallas, TX 75244-3292**

**This Report was prepared by
Dallas Semiconductor Reliability Engineering**

Summary:

The data in the tables that follow was generated as the result of an on-going Package Reliability Monitor. The assemblies covered by this package monitor are:

ASSY SITE	PINS	PACKAGE		
Carsem	3	TO220	Carsem	2 TO92
Carsem	3	TO92	Carsem	2 TO92 (Pb-Free)
Carsem	3	TO92 (Pb-Free)	CIRTEK	2 TO92
CIRTEK	3	TO92	CIRTEK	2 TO92 (Pb-Free)
CIRTEK	3	TO92 (Pb-Free)	Hana	3 PR35 (Pb-Free) (TO226)
Hana	3	TO226 (PR35)	Hana	2 TO92
Hana	3	TO92	Hana	2 TO92 (Pb-Free)
Hana	3	TO92 (Pb-Free)	Omedata	3 TO92

The calculated failure rate for this assembly is:

FAILURE RATE: MTTF (YRS): 18096 FITS: 6.3

The parameters used to calculate this failure rate are as follows:

Cf: 60% Ea: 0.7 Tu: 25 °C

The reliability data follows. At the start of this data is a description of the assembly vehicle used to generate this reliability data. The next section is the detailed reliability data for each stress. The reliability data section includes the latest data available. This report covers data between 7/1/2006 and 6/30/2007.

Assembly Information:

Package Type: TO92 185
Flammability: UL 94-V0
Moisture Sensitivity (JEDEC J-STD20A) Level 1
Date Code Range: 0629 to 0629

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	0629	DS2503	125C, 6.0 VOLTS	1000 HRS	77	0	
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	0629	DS2503	150C	1000 HRS	77	0	
Total:						0	

Assembly Information:

Package Type: TO92 (Pb-Free) 185
Flammability: UL 94-V0
Moisture Sensitivity (JEDEC J-STD20A) Level 1
Date Code Range: 0637 to 0637

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
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HIGH TEMP OP LIFE	0637	DS2430	125C, 6.0 VOLTS	1000 HRS	77	0
Total:						0

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE	0637	DS2430	-55C TO 125C	1000 CYS	77	0	
Total:						0	

TEMPERATURE HUMIDITY BIAS

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
BIASED MOISTURE	0637	DS2430	85/85, 5.5 VOLTS	1000 HRS	77	0	
Total:						0	

UNBIASED MOISTURE RESISTANCE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
AUTOCLAVE	0637	DS2430	121C, 2 ATM STEAM, UNBIASED	168 HRS	77	0	
Total:						0	

FAILURE RATE: MTTF (YRS): 18096 FITS: 6.3