

**RELIABILITY MONITOR REPORT
FOR**

0.6 μm Process

Dallas Semiconductor

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

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

Gate Oxide Thickness: 150 Å

OPERATING LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
HIGH TEMP OP LIFE	0547	DS2118M	125C, 5.5 VOLTS	1000 HRS	77	0	
HIGH TEMP OP LIFE	0548	DS12885	125C, 5.0 VOLTS	1000 HRS	77	0	
HIGH TEMP OP LIFE	0548	DS12885	125C, 5.0 VOLTS	1000 HRS	77	0	
HIGH TEMP OP LIFE	0549	DS80C320	125C, 5.5 VOLTS	1000 HRS	77	0	
HIGH TEMP OP LIFE	0602	DS87C550	125C, 5.5 VOLTS	1000 HRS	77	0	
HIGH TEMP OP LIFE	0612	DS12885	125C, 5.5 VOLTS	1000 HRS	77	0	
HIGH TEMP OP LIFE	0617	DS87C550	125C, 5.5 VOLTS	1000 HRS	45	0	
Total:						0	

STORAGE LIFE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
STORAGE LIFE	0548	DS12885	150C	1000 HRS	77	0	
STORAGE LIFE	0548	DS12885	150C	1000 HRS	77	0	
STORAGE LIFE	0549	DS80C320	150C	1000 HRS	77	0	
STORAGE LIFE	0602	DS87C550	150C	1000 HRS	77	0	
STORAGE LIFE	0617	DS87C550	150C	1000 HRS	77	0	
Total:						0	

TEMPERATURE CYCLE

DESCRIPTION	DATE CODE	TEST VEHICLE	CONDITION	READPOINT	QUANTITY	FAILS	FA NO
TEMP CYCLE	0547	DS2118M	-55C TO 125C	1000 CYS	77	0	
TEMP CYCLE	0548	DS12885	-55C TO 125C	1000 CYS	77	0	
TEMP CYCLE	0548	DS12885	-55C TO 125C	1000 CYS	77	0	
TEMP CYCLE	0549	DS80C320	-55C TO 125C	1000 CYS	77	0	
TEMP CYCLE	0602	DS87C550	-55C TO 125C	1000 CYS	77	0	
TEMP CYCLE	0612	DS12885	-55C TO 125C	1000 CYS	77	0	
TEMP CYCLE	0617	DS87C550	-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	0548	DS12885	85/85, 5.5 VOLTS	1000 HRS	77	0	
BIASED MOISTURE	0548	DS12885	85/85, 5.5 VOLTS	1000 HRS	77	0	
BIASED MOISTURE	0549	DS80C320	85/85, 5.5 VOLTS	1000 HRS	77	0	
BIASED MOISTURE	0602	DS87C550	85/85, 5.5 VOLTS	1000 HRS	70	0	
HAST	0612	DS12885	130C, 85%R.H.,5.5V	96 HRS	77	0	

BIASED MOISTURE	0617	DS87C550	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	0547	DS2118M	121C, 2 ATM STEAM, UNBIASED	168	HRS	76	0
AUTOCLAVE	0548	DS12885	121C, 2 ATM STEAM, UNBIASED	168	HRS	76	0
AUTOCLAVE	0548	DS12885	121C, 2 ATM STEAM, UNBIASED	168	HRS	75	0
AUTOCLAVE	0549	DS80C320	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
AUTOCLAVE	0602	DS87C550	121C, 2 ATM STEAM, UNBIASED	168	HRS	75	0
AUTOCLAVE	0612	DS12885	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
AUTOCLAVE	0617	DS87C550	121C, 2 ATM STEAM, UNBIASED	168	HRS	77	0
						Total:	0

FAILURE RATE: **MTTF (YRS): 59574** **FITS: 1.9**