

# RELIABILITY MONITOR

PROCESS: 0.6  $\mu$ m Single Poly, Single Metal (Ti/TiN layers used on all Metals)

## STRESS: INFANT LIFE

PRODUCT	REV	MONITOR DATE	JOB NO	DATE CODE	ASSEMBLY FACILITY	LOT NO.	PACKAGE	READ POINT	QTY	FAILS
DS2401	C2	MAR '99	P23371	9851	CARSEM	DM832008AIA	TO-92	48	234	0
DS80C320	C4	APR '99	P23673	9903	ANAM-PI (ATP/AAPI)	DK826547AA	40 PIN PDIP	48	234	0

## STRESS: HIGH VOLTAGE LIFE

PRODUCT	REV	MONITOR DATE	JOB NO	DATE CODE	ASSEMBLY FACILITY	LOT NO.	PACKAGE	READ POINT	QTY	FAILS
DS2401	C2	MAR '99	P23401	9851	CARSEM	DM832008AIA	TO-92	336	77	0
DS2401	C2	MAR '99	P23401	9851	CARSEM	DM832008AIA	TO-92	1000	77	0
DS80C320	C4	APR '99	P23690	9903	ANAM-PI (ATP/AAPI)	DK826547AA	40 PIN PDIP	336	77	0
DS80C320	C4	APR '99	P23690	9903	ANAM-PI (ATP/AAPI)	DK826547AA	40 PIN PDIP	1000	77	0

TOTALS FOR: 0.6  $\mu$ m Single Poly, Single Metal (Ti/Ti) FAIL RATE (Fits): 22 DEVICE HRS: 4.22E+07 0

# RELIABILITY MONITOR

PROCESS: 0.8  $\mu$ m Double Poly, Single Metal

## STRESS: INFANT LIFE

PRODUCT	REV	MONITOR DATE	JOB NO	DATE CODE	ASSEMBLY FACILITY	LOT NO.	PACKAGE	READ POINT	QTY	FAILS
DS2153	A7	DEC '98	P23108	9833	ANAM-K (ASI/AICL)	DN811539AAB	44 PIN PLCC	48	237	0
DS87C520	A11	FEB '99	P23415	9838	ANAM-K (ASI/AICL)	DN825394AAB	44 PIN PLCC	48	235	0
DS87C520	A13	NOV '98	P23309	9832	ANAM-K (ASI/AICL)	DN821500AAB	44 PIN PLCC	48	236	0

## STRESS: HIGH VOLTAGE LIFE

PRODUCT	REV	MONITOR DATE	JOB NO	DATE CODE	ASSEMBLY FACILITY	LOT NO.	PACKAGE	READ POINT	QTY	FAILS
DS2153	A7	DEC '98	P23191	9833	ANAM-K (ASI/AICL)	DN811539AAB	44 PIN PLCC	1000	77	0
DS87C520	A13	NOV '98	P23593	9832	ANAM-K (ASI/AICL)	DN821500AAB	44 PIN PLCC	336	77	0
DS87C520	A13	NOV '98	P23593	9832	ANAM-K (ASI/AICL)	DN821500AAB	44 PIN PLCC	1000	77	0

TOTALS FOR: 0.8  $\mu$ m Double Poly, Single Metal FAIL RATE (Fits): 20 DEVICE HRS: 4.59E+07 0

# RELIABILITY MONITOR

PROCESS: 0.8  $\mu$ m Single Poly, Double Metal

## STRESS: INFANT LIFE

PRODUCT	REV	MONITOR DATE	JOB NO	DATE CODE	ASSEMBLY FACILITY	LOT NO.	PACKAGE	READ POINT	QTY	FAILS
DS1803	A2	FEB '99	P23928	9835	CHIPPAC, KOREA	DL818111AAB	16PN, 150 MIL SOI	48	232	0
DS1803	A2	NOV '98	P23173	9833	CHIPPAC, KOREA	DL820412AAB	16PN, 150 MIL SOI	48	234	0
DS2118M	A4	JUN '99	P24038	9912	ANAM-K (ASI/AICL)	DN848138AAA	36PN SSOP	48	234	0
DS2118M	A4	MAR '99	P23526	9904	ANAM-K (ASI/AICL)	DN844402AAC	36PN SSOP	48	234	0

## STRESS: HIGH VOLTAGE LIFE

PRODUCT	REV	MONITOR DATE	JOB NO	DATE CODE	ASSEMBLY FACILITY	LOT NO.	PACKAGE	READ POINT	QTY	FAILS
DS2118M	A4	MAR '99	P23600	9904	ANAM-K (ASI/AICL)	DN844402AAC	36PN SSOP	336	77	0
DS2118M	A4	MAR '99	P23600	9904	ANAM-K (ASI/AICL)	DN844402AAC	36PN SSOP	1000	77	1

TOTALS FOR: 0.8  $\mu$ m Single Poly, Double Metal      FAIL RATE (Fits): 99      DEVICE HRS: 2.05E+07      1

# RELIABILITY MONITOR

PROCESS: 0.8  $\mu$ m Single Poly, Single Metal

## STRESS: INFANT LIFE

PRODUCT	REV	MONITOR DATE	JOB NO	DATE CODE	ASSEMBLY FACILITY	LOT NO.	PACKAGE	READ POINT	QTY	FAILS
DS2109	A7	MAR '99	P23723	9839	CARSEM	DM812688AA	28 PIN SOIC	48	233	5
DS2109	A7	DEC '98	P23110	9836	CARSEM	DM811524AA-	28 PIN SOIC	48	233	0
DS21S07A	B2	NOV '98	P22912	9825	ANAM-PI (ATP/AAPI)	DK809216AC	20 PIN TSSOP	48	231	0
DS2401	B2	DEC '98	P22908	9815	CARSEM	DM803085AA	TO-92	48	234	0
DS80C320	B5	JAN '99	P23075	9841	ANAM-PI (ATP/AAPI)	DK827694AA	40 PIN PDIP	48	234	0

## STRESS: HIGH VOLTAGE LIFE

PRODUCT	REV	MONITOR DATE	JOB NO	DATE CODE	ASSEMBLY FACILITY	LOT NO.	PACKAGE	READ POINT	QTY	FAILS
DS2109	A7	DEC '98	P23155	9836	CARSEM	DM811524AA-	28 PIN SOIC	336	77	0
DS2109	A7	DEC '98	P23155	9836	CARSEM	DM811524AA-	28 PIN SOIC	1000	77	0
DS21S07A	B2	NOV '98	P23127	9825	ANAM-PI (ATP/AAPI)	DK809216AC	20 PIN TSSOP	336	77	0
DS21S07A	B2	NOV '98	P23127	9825	ANAM-PI (ATP/AAPI)	DK809216AC	20 PIN TSSOP	1000	77	0
DS2401	B2	DEC '98	P22922	9815	CARSEM	DM803085AA	TO-92	336	77	0
DS2401	B2	DEC '98	P22922	9815	CARSEM	DM803085AA	TO-92	1000	77	0
DS80C320	B5	JAN '99	P23223	9841	ANAM-PI (ATP/AAPI)	DK827694AA	40 PIN PDIP	336	77	0
DS80C320	B5	JAN '99	P23223	9841	ANAM-PI (ATP/AAPI)	DK827694AA	40 PIN PDIP	1000	77	0

TOTALS FOR: 0.8  $\mu$ m Single Poly, Single Metal FAIL RATE (Fits): 59 DEVICE HRS: 1.08E+08 5

# RELIABILITY MONITOR

PROCESS: 1.2 µm Single Poly, Single Metal

## STRESS: INFANT LIFE

PRODUCT	REV	MONITOR DATE	JOB NO	DATE CODE	ASSEMBLY FACILITY	LOT NO.	PACKAGE	READ POINT	QTY	FAILS
DS1000	E3	JAN '99	P23057	9847	CHIPPAC, CHINA (CPS)	DH833179ADA	8 PIN PDIP	48	234	0
DS1233	A5	JAN '99	P23164	9842	CARSEM	DM823017AB	SOT-223	48	229	0
DS1233	A5	APR '99	P23773	9911	CARSEM	DM837033AB	SOT-223	48	229	0
DS1869	A3	MAR '99	P23440	9829	ALPHTK-BANGKOK(NSE	DJ821534ABB	8PN SOIC, 208MIL	48	237	0
DS5002	B3	JAN '99	P23122	9846	CARSEM	DM830493AA	80 PIN PQFP	48	199	1
DS5002	B3	APR '99	P23852	9905	CARSEM	DM831680AA	80 PIN PQFP	48	199	0

## STRESS: HIGH VOLTAGE LIFE

PRODUCT	REV	MONITOR DATE	JOB NO	DATE CODE	ASSEMBLY FACILITY	LOT NO.	PACKAGE	READ POINT	QTY	FAILS
DS1000	E3	JAN '99	P23178	9847	CHIPPAC, CHINA (CPS)	DH833179ADA	8 PIN PDIP	336	77	0
DS1000	E3	JAN '99	P23178	9847	CHIPPAC, CHINA (CPS)	DH833179ADA	8 PIN PDIP	1000	77	0
DS1233	A5	JAN '99	P23250	9842	CARSEM	DM823017AB	SOT-223	336	77	0
DS1233	A5	JAN '99	P23250	9842	CARSEM	DM823017AB	SOT-223	1000	77	0
DS5002	B3	JAN '99	P23229	9846	CARSEM	DM830493AA	80 PIN PQFP	336	77	0
DS5002	B3	JAN '99	P23229	9846	CARSEM	DM830493AA	80 PIN PQFP	1000	77	1

TOTALS FOR: 1.2 µm Single Poly, Single Metal FAIL RATE (Fits): 30 DEVICE HRS: 1.02E+08 2

# RELIABILITY MONITOR

PROCESS: 2.0  $\mu$ m Single Poly, Single Metal

## STRESS: INFANT LIFE

PRODUCT	REV	MONITOR DATE	JOB NO	DATE CODE	ASSEMBLY FACILITY	LOT NO.	PACKAGE	READ POINT	QTY	FAILS
DS2175	D1	JAN '99	P23183	9838	ANAM-PI (ATP/AAPI)	DK826585AA	16 PIN SOIC	48	234	0
DS2180A	B3	APR '99	P23775	9850	ANAM-K (ASI/AICL)	DN839402AAC	44 PIN PLCC	48	237	0

## STRESS: HIGH VOLTAGE LIFE

PRODUCT	REV	MONITOR DATE	JOB NO	DATE CODE	ASSEMBLY FACILITY	LOT NO.	PACKAGE	READ POINT	QTY	FAILS
DS2175	D1	JAN '99	P23233	9838	ANAM-PI (ATP/AAPI)	DK826585AA	16 PIN SOIC	336	77	0
DS2175	D1	JAN '99	P23233	9838	ANAM-PI (ATP/AAPI)	DK826585AA	16 PIN SOIC	1000	77	0

TOTALS FOR: 2.0  $\mu$ m Single Poly, Single Metal FAIL RATE (Fits): 26 DEVICE HRS: 3.48E+07 0