

RELIABILITY MONITOR

| PRODUCT | MONITOR DATE | DATE CODE | ASSEMBLY FACILITY | ASSEMBLY LOT NO | PROCESS TYPE | PACKAGE TYPE |
|---------|--------------|-----------|-------------------|-----------------|--------------|--------------|
| DS2181A | Aug-97 | 9728 A2 | ANAM, K. | DN722742ABB | 2.0μ OXIDE | 44 PLCC |

STRESS/JOB NO.

**READPOINT
(Sample Size/No. of Fails)**

Preconditioning (P/C):
T/C: -55°C to +125°C, 10~
HTC Vapor Phase, P-20243

| <u>Electrical</u> | <u>Cum %</u> |
|-------------------|--------------|
| 209/0 | 0.0% |

Sonoscan
P-20302

| <u>Post Vapor Phase</u> |
|-------------------------|
| 4/0 |

Infant / High Voltage Life
125°C, 7.0 V.
P-20303, P-20458

| <u>48 Hr</u> | <u>336 Hr</u> | <u>1KHr</u> | <u>*Failure Rate</u> |
|--------------|---------------|-------------|----------------------|
| 205/0 | 77/0 | 77/0 | 31 Fits |

*Chi Squared Method, 60% C. L., 55°C & 5.5V; Temperature Derating: Ea = 0.7 ev; Voltage Derating B = 1.0

Temp Cycle
-55°C to +125°C
P-20459

| <u>300 ~</u> | <u>1K ~</u> | <u>Cum %</u> |
|--------------|-------------|--------------|
| 45/0 | 45/0 | 0.0% |

Biased Moisture (HAST)
121°C/85% RH, 5.5 V.
P-20460

| <u>100 Hr</u> | <u>Cum %</u> |
|---------------|--------------|
| | |

Autoclave
121°C/100% RH, 2 Atmos
P-20461

| <u>96 Hr</u> | <u>Cum %</u> |
|--------------|--------------|
| 38/0 | 0.0% |

Failure Mode

Failure Analysis