

RELIABILITY DATA RADHARD DEVICES

11/3/2010

• OPERATING LIFE TEST

PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	K DEVICE HOURS ⁽¹⁾ AT +125°C	NUMBER OF ⁽²⁾ FAILURES
RH07	333	9349	9718	342.89	0
RH1009	1,990	9321	0649	4,065.06	0
RH101	352	9202	0330	361.64	0
RH1011	1,095	9206	0711	1,941.37	0
RH1013	1,065	0548	0548	2,726.52	2
RH1014	2,278	9334	0721	3,804.28	2
RH1016	161	0748	0748	72.48	0
RH1021	2,595	0620	0620	5,226.66	0
RH1056	397	9203	0226	415.22	0
RH1078	397	9613	0327	762.99	2
RH108	754	9151	0451	888.84	0
RH1083	81	9601	9714	81.19	0
RH1084	104	9714	9721	106.49	0
RH1085	235	9723	0501	257.83	1
RH1086	1,172	9621	0649	2,737.30	1
RH117	1,812	9210	0739	2,567.89	0
RH118	640	9119	9806	690.42	0
RH1185	55	0826	0826	55.00	0
RH119	1,326	9150	0307	1,395.07	1
RH129	80	0338	0338	247.07	0
RH137	1,775	9150	0739	2,779.01	0
RH1498	232	0318	0318	342.49	0
RH1499	152	0318	0318	255.21	0
RH1814	80	0414	0414	80.32	0
RH27	529	9208	0241	804.82	0
RH270	80	9318	9318	80.19	0
RH37	409	9316	0834	415.78	0
	20,179			33,504.05	9

RELIABILITY DATA RADHARD DEVICES

- **OPERATING LIFE TEST**

- **FAILURE RATE** = **0.6 FITS at +55°C,**
60% Confidence Level
Assumes an Activation
Energy = 1.0 eV
- **MTBF** = **183,011 Years**

RELIABILITY DATA RADHARD DEVICES

• SUBGROUP B-6

PACKAGE TYPE	SAMPLE SIZE	OLDEST DATE CODE	NEWEST DATE CODE	CYCLES -65°C to +150°C	NUMBER OF FAILURES
H-08	1,182	9119	0830	118,200	0
H-39	604	9150	0833	58,955	0
H-46	505	9321	0829	47,610	0
H-52	84	9744	9840	8,400	0
J-08	259	9349	0750	24,455	0
J-14/J-16	197	9119	0744	19,700	0
K-03	363	9210	0638	34,855	0
W-10	937	9152	0834	92,255	0
W-14	866	9334	0834	86,600	0
	4,997			491,030	0

Note: J = CERDIP, H = HERMETIC, K = TO-3, W = FLATPACK

SUBGROUP B6 (CLASS S)

ELECTRICAL TEST +25°C / +125°C / -55°C

100 TEMP CYCLES -65°C TO +150°C

CONSTANT ACCELERATION 30Kq's Y1 Axis

FINE & GROSS LEAK

ELECTRICAL TEST +25°C - COMPUTE DELTA'S

ELECTRICAL TEST +125°C / -55°C
COMPUTE TEMPCO'S