JSCJ

Mean Time To Failure Report

Report NO: M-F00463

Part Number: CJAC80N03L

Package Type: PDFNWB5x6-8L

1.Reliability Test Method And Description:

Stress Test Item :	HTRB
Test Duration (Hours)	1000
Sample Q'ty (Pcs) :	77
Failure Q'ty (Pcs) :	0
Total Device Hours (Hrs) :	77000
Accelerated Temp (Ta)(°C) :	150
Normal Operation Temp. (Tu)(°C) :	55
Eactivation Energy (Ea) :	0.7
K (Boltzmans Constant) :	8.617164E-5 eV/°K
Chi-Square Constant @confidence level:60% (chi):	1.833
Chi-Square Constant @confidence level:90%(chi):	4.605

Acceleration Factor ,Af at Tu list:

Tu	55℃	85℃	100℃	125℃	150℃
Af	259.2	32.6	13.1	3.3	1.0

2.Results(Use Conditions Tu=55℃ & confidence level:90%):

Failure Rate FIT(@Operation Condition):	115.4	FIT
Mean Time to Failure (MTTF):	8668504	Hours
	990	Years

3.MTTF/FIT Calculate Equations:

Af	exp[(Ea/K)* (1/(Tu+273.15)-1/(Ta+273.15))]
FIT @ Operation Condition	Chi*10^9/(2*Hrs*AF)
MTTF hours	10^9/ FIT
MTTF years	10^9/(FIT*24*365)

Remark: JSCJ Laboratory reserves the right of final interpretation of this report