参考資料

COSEL

DBS100A,150A Reliability Test results

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OS Design DEPT.

Approved : Tatsuya Mano
Tatsuya Mano

Prepared : Takuya Mori
Takuya Mori

No.	Test Item	Testing conditions	Conditions of acceptability	Number of samples	Number of failures
1	Heat cycle test	(1) -40°C ~ 125°C 30minutes each (2) 600cycles	(1)No degradation of electric characteristics after test.	5	0
2	High temperature/ High humidity bias test	(1) Ta=85℃,RH=85% (2) At rated input (3) Load 0% (4) 1000hours	(1)No degradation of electric characteristics after test.	3	0
3	Vibration test	(1) f=10~55Hz.49.0m/s^2(5G) (2) 3minutes period (3) 1hour each X,Y and Z axis	(1)No degradation of electric characteristics after test. (2)No crack at solder joint. (3)No marked damage of appearance.	3	0
4	Impact test	(1) 196.1m/s^2(20G).11ms (2) Once each X,Y and Z axis	(1)No degradation of electric characteristics after test. (2)No crack at solder joint. (3)No marked damage of appearance.	3	0
5	Soldering heat test	(1) 260℃,15seconds (2) Mounting board : t=1.6mm / FR-4	(1)No crack at solder joint. (2)No marked damage of appearance.	1	0
6	Pin strength test immunity test	(1) Weight φ1 pin : 1kg (2) Bending angle:90 deg., total 180 deg. (3) 1 cycle	(1)No degration of electric characteristics after test. (2)No broken or bent pin.	1	0
7	Static electricity immunity test	(1) Applied voltage ±8kV (2) At rated input and load	(1)No protection circuit fail. (2)No output voltage drop with control circuit fail. (3)No any other function fail.	1	0