

TUNS1200F series Reliability test results

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参考資料

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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) 800cycles 	 (1)No degradation of electric characteristics after test. (2)No crack at solder joint. 	5	0
2	High temperature/ High humidity bias test	 (1) Ta=85°C, 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 \sim 55Hz, 49.0m/s ² (5G) (2) 3minutes period (3) 60minutes each X, Y and Z axis	 (1)No degradation of electric characteristics after test. (2)No crack at solder joint. (3)No mechanical damage of appearance. 	3	0
4	Impact test	 (1) 196.1m/s²(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 thermal damage of appearance. 	3	0
5	Soldering heat test	 Soldering iron 260°C, 15 seconds Mounting board : t=1.6mm / FR4 	(1)No crack at solder joint. (2)No marked damage of appearance.	1	0
6	Soldering test	 (1) Pre-process Vapor again(100°C/100%),1H Flux treatment (2) Soldering 235°C±5°C,2seconds 	(1)Over 95% of dipped part is covered with solder.	1	0
7	Pin strength test	 Weight φ 1pin : 2.0kg φ 2pin : 4.0kg Bending angle : 90 deg., total 180 deg. 1 cycle 	(1)No degradation of electric characteristics after test.(2)No degradation of terminal	1	0
8	Static electricity immunity test	 At rated input and load Amient temp. 25±10°C Contact Dischaege : Level 4 (8kV) Air Dischaege : Level 3 (8kV) 	 (1)No protection circuit failure. (2)No output voltage drop with control circuit failure. (3)No any other function failure. 	1	0