

R5438L Series Reliability Test Report

305438L1PD-Ver.Ba

FUNCTION : Lithium-ion Battery Protection Ics

PACKAGE : DFN1814-6C ...Pd plate, Halogen free resin

No.	TEST ITEM	TEST CONDITION	(*)PRE-CONDITION	TIME	r/n
1	High Temp. Operating Life	Ta=125°C VDD=Vopt max. Dynamic	No	1000h	0/32
2	High Temp. Storage	Ta=150°C	No	1000h	0/22
3	Temp. Cycle	Ta=-65~150°C (30-30min)	①+②	500cycles	0/22
4	HAST	Ta=125°C RH=85% VDD=Vopt max. Static	①+②	200h	0/22
5	UHAST	Ta=125°C RH=85%	①+②	200h	0/22
6	Resistance To Soldering Heat	IR Reflow	①	3times	0/66
7	ESD (1)	HBM C=100pF R=1.5k ohm ±2.0kV	No	3times	0/3
8	ESD (2)	CDM ±1.0kV	No	Once	0/3
9	Latch-up	Pulse Current Injecting Method ±100mA	No	Once	0/6

Criteria : The electrical characteristics prescribed in the individual specifications shall be satisfied.

*) Pre-Condition
(J-STD-020)

The test shall be performed this pre-condition before testing.

- ① Ta=85°C, RH=85%, storage=168h
- ② IR Reflow soldering heat stress (3times)

[Moisture Sensitivity Level]
MSL Level = 1

Conclusion: The reliability result was good.