

RELIABILITY TEST RESULT

Product name : S-5420A-P6T2S
Package type : SON-6C

No.	Test item	Test Condition	Test Time	r/n	Criterion
1	High-temperature operation	Ta=85 °C, V=V _R max.	1000 h	0/22	Satisfies the product standard
2	Temperature humidity bias #1	Ta=60 °C, RH=90 %, V=V _R max.	1000 h	0/22	Satisfies the product standard
3	Storage in high temperature	Ta=85 °C	1000 h	0/22	Satisfies the product standard
4	Storage in low temperature	Ta=-65 °C	1000 h	0/22	Satisfies the product standard
5	Temperature Cycle (Gas phase) #1	Ta=100 °C ⇔ -40 °C 15 minutes for each	100 cycles	0/22	Satisfies the product standard
6	Resistance to soldering heat (reflow soldering) #2	T=260 °C ,10 s	1 time	0/22	Satisfies the product standard No abnormality by appearances
7	Solderability #3	T=245 °C Solder material : Sn-3.0Ag-0.5Cu	5 s	0/11	Solder should be applied at 95% or more of solderability judgment area.
8	Whisker - 1 (Temperature / Humidity Storage)	Ta=30 °C, RH=60%	4000 h	0/6	Whisker should be less than 40μm
9	Whisker - 2 (Temperature Cycling)	Ta=85 °C ⇔ -40 °C	1500 cycles	0/6	Whisker should be less than 45μm
10	Whisker - 3 (High Temperature / Humidity Storage)	Ta=55 °C, RH=85 %	4000 h	0/6	Whisker should be less than 40μm
11	ESD (Human Body Model)	V=±2000 V, C=100 pF, R=1.5 kΩ Ground : IHOUT / ILOUT, GND	5 pulses	0/5	Satisfies the product standard

Remark : V_R max. = Reverse voltage. (Absolute maximum ratings.)

#1,2,3 : Each test designated # is performed after Pre-Treatment finished.

Pre-Treatment consists of High Temperature Storage, Temperature Humidity Storage and Soldering Heat. (See the table below.)

Pre Treatment (#1)		
High Temp. Storage	Temperature Humidity Storage	Soldering Heat
-	Ta=30 °C RH=60 % t=192 h	Reflow 1 time T=260 °C t=10 s

Pre Treatment (#2)		
High Temp. Storage	Temperature Humidity Storage	Soldering Heat
Ta=65 °C t=24 h	Ta=30 °C RH=60 % t=192 h	—

Pre Treatment (#3)		
High Temp. Storage	Temperature Humidity Storage	Soldering Heat
—	Ta=105 °C RH=100 % t=8 h	—