



# ***AOS Semiconductor Product Reliability Report***

**AOZ7000**, rev A

**Plastic Encapsulated Device**

**ALPHA & OMEGA Semiconductor, Inc**

**[www.aosmd.com](http://www.aosmd.com)**

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This AOS product reliability report summarizes the qualification result for AOZ7000. Accelerated environmental tests are performed on a specific sample size, and then followed by electrical test or optical inspection at end point. Review of final electrical test and optical inspection results confirm that AOZ7000 passes AOS quality and reliability requirements.

### I. Reliability Stress Test Summary and Results

Test Item	Test Condition	Time Point	Total Sample Size	Number of Failures	Reference Standard
uHAST	130°C, 85%RH, 33.3 psia	96 hours	77 pcs*	0	JESD22-A110
TCT	-40~85°C, 30 min	182 cycles	2 pcs	0	IPC-TM-650 2.4.6
DHT	85°C, 85%RH	545 hours	2 pcs	0	IPC-TM-650 2.4.6
T260	260°C	25 mins	1 pc	0	IPC-TM-650 2.4.24.1
T288	288°C	1 min	1pc	0	IPC-TM-650 2.4.24.1
Solder Float	125°C, 4hrs, 288°C, 10 sec	20 cycles	2 pcs	0	IPC-TM-650 2.4.6
Solderability Test	260+/-5°C, 3~5sec	-	4 pcs	0	IPC-TM-650 2.4.12

Note: "\*" 4500 Vac test passed which is for customer requested.

