

ESD TEST REPORT

Human Body Model
JS-001-2017

ANSI/ESDA/JEDEC Standard, Method JS-001-2017 is an ESD test using Human Body Model where “R = 1500 ohm”, “C = 100pf”, one positive and one negative pulses applied to the devices per customer’s specification with a minimum of 0.1 second cool down between pulses.

Customer : Chongqing Alpha and Omega Semiconductor Limited

Address: No. 288 Yuefu Road, Beibei District, Chongqing, P.R. China

Device Information

Part No. :	AOCA32317	Sample Size :	8pcs
Package Type :	MCSP3.37x1.47_10	Pin Count :	10
Lot No. :	AAB0118.01 (1101)	Date Code :	-
VDD Domains :	S2 S1	VSS Domains :	S1 S2

Test Equipment

Tester :	ZAPMASTER MK.2 SE	Serial No. :	0508317
Calibration Date :	Jan 14 th 2021	Expiration Date :	Jan 13 th 2022

Environmental Condition

Temperature :	23°C	Humidity :	50% RH
Submit date :	Feb 2 nd 2021	Complete date :	Feb 2 nd 2021

Stress Summary

Channel_1 G1 TO S1			
Sample No.	Stress Type	Voltage Level	Spot Test Results* (Within 10μA @ 20V between G1 and S2/S1)
1#	HBM	+4kV	FAILED
2#	HBM	±3.9kV	PASS
3#	HBM	±3.9kV	PASS
4#	HBM	±3.9kV	PASS

Channel_1 G1 TO S2			
Sample No.	Stress Type	Voltage Level	Spot Test Results* (Within 10μA @ 20V between G1 and S2/S1)
5#	HBM	+4kV	FAILED
6#	HBM	±3.9kV	PASS
7#	HBM	±3.9kV	PASS
8#	HBM	±3.9kV	PASS


Channel_2 G2 TO S2			
Sample No.	Stress Type	Voltage Level	Spot Test Results* (Within 10μA @ 20V between G2 and S1/S2)
1#	HBM	+4.1kV	FAILED
2#	HBM	±4kV	PASS
3#	HBM	±4kV	PASS
4#	HBM	±4kV	PASS

Channel_2 G2 TO S1			
Sample No.	Stress Type	Voltage Level	Spot Test Results* (Within 10μA @ 20V between G2 and S1/S2)
5#	HBM	-4.1kV	FAILED
6#	HBM	±4kV	PASS
7#	HBM	±4kV	PASS
8#	HBM	±4kV	PASS

Test Result*

Model	Pin Combinations	ESD Sensitivity Pass*: 3.9kV	V Class
HBM	Channel 1 – G1 vs. S1	±3.9kV	2 JS-001-2017 Class 0Z: <50V Class 0A: 50V~124V Class 0B: 125V~249V Class 1A: 250V~499V Class 1B: 500V~999V Class 1C: 1000V~1999V Class 2: 2000V~3999V Class 3A: 4000V~7999V Class 3B: ≥8000V
	Channel 1 – G1 vs. S2	±3.9kV	
	Channel 2 – G2 vs. S2	±4kV	
	Channel 2 – G2 vs. S1	±4kV	

*Note: Results will be updated based on customer final electrical test results.

Test Engineer: Wenping Yan	Date: Feb 2 nd 2021
Approved by FA Manager: 	Date: Feb 2 nd 2021



Recommendations

EAG Shanghai certifies that above tests have been performed in accordance to the requirements stated above and per the customer purchase order and applicable documents.

EAG Shanghai recommends electrical testing as a validation of reported results. Curve Trace criteria was utilized to specify a pass or fail. Industry standards require the device to be tested functionally at post stress and should continue to meet all electrical parameters as per the data sheet.

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