



# ELECTROSTATIC DISCHARGE (ESD) TESTING REPORT

Applicant/Department: MinYuan Sensing Technology Co., Ltd.		
Product: MY18B20	LOT:	
Case NO: S171219020	Quantity: 20 ea	
Test Item: Human Body Model (HBM)	Package/Pin Count: TO-92	
Application Date: 2017/12/19	Date Finished: 2018/1/3	
Reference: ESDA/JEDEC JS-001-2014	Temperature: 25 $\pm$ 5 $^{\circ}$ C	Humidity: 55 $\pm$ 5%
Test Instrument: MK2	Test Voltage: $\pm$ 1000V~ <del><math>\pm</math>8000V</del> ; Step: $\pm$ 1000V	
<b>Failure Criteria:</b> After testing, DUT no longer fulfills requirements of $\pm$ 30% voltage drift at $\pm$ 1uA reference current and compliance within 10% V+I envelope around REFERENCE I-V curve (pre-zap).		
File Name of Raw Data: MY18B20		
ESD Testing Result: Minimum Pass Level = <del><math>\pm</math>8000V</del>		

**NOTE 1:** ESD/latch-up test is employed as one of qualification tests for electronic products. However, the pass / fail results of this test can NOT be taken as go/no-go criteria for IC tape-out and mass production. Before and after ESD/latch-up test(s), complete parametric and functional testing (F/T) are essential for determining pass/fail of the tested products. (References: Page 9, AEC-Q100-003-Rev-E-2003; and Page 15, ESDA-JEDEC JS-001-2011).

**NOTE 2:** MA-tek sample storage policy is 14 days after the test data delivery. Prolonged storage can be arranged per client's request.

**WE HEREBY CERTIFY THAT:**

The test(s) was/were conducted according to test conditions provided by customer. Testing was performed on calibrated and JEDEC-ESDA qualified ESD instruments. The quality and comprehensiveness of this test(s) were delivered by qualified personnel.

Tested by	Reviewed by	Approved by
wang zhangjin	Fly- Fei	Zhen-zhu

**CERTIFICATE of APPROVAL INDEPENDENT TESTING LABORATORY:**

ISO9001:2015 Certificate Registration No. 20001845 QM08, issued by UL DQS Inc.  
IEC/IECQ17025 Certificate No. IECQ-L ULTW 09.0009, approved by Certification  
Body (CB): UL Registered Firm







# ELECTROSTATIC DISCHARGE (ESD) TESTING REPORT

Applicant/Department: MinYuan Sensing Technology Co., Ltd.		
Product: MY18B20	LOT:	
Case NO: S171219020	Quantity: 3 ea	
Test Item: Orion CDM(N-CDM)	Package/Pin Count: TO-92	
Application Date: 2017/12/19	Date Finished: 2018/1/3	
Reference: ESDA/JEDEC JS-002-2014	Temperature: 25 ±5 ℃	Humidity: 55 ±5%
Test Instrument: Orion CDM Tester	Test Voltage: ±100V~±2000V;Step:±100V	
Failure Criteria: After testing, DUT no longer fulfills requirements of ±30% voltage drift at ±1uA reference current and compliance within 10% V+I envelope around REFERENCE I-V curve (pre-zap).		
File Name of Raw Data: MY18B20		
ESD Testing Result: Minimum Pass Level = ±2000V		

**NOTE 1:** ESD/latch-up test is employed as one of qualification tests for electronic products. However, the pass / fail results of this test can NOT be taken as go/no-go criteria for IC tape-out and mass production. Before and after ESD/latch-up test(s), complete parametric and functional testing (F/T) are essential for determining pass/fail of the tested products. (References: Page 9, AEC-Q100-003-Rev-E-2003; and Page 15, ESDA-JEDEC JS-001-2011).

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Tested by	Reviewed by	Approved by
wang zhanjin	Fly- Fei	Zhen-zhu

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