

Name: Hangzhou Silan Microelectronics Co., Ltd. Inspection and Testing Center  
Address: 4/F., Office Building, No.500, Binkang Road, Binjiang District, Hangzhou, Zhejiang, China  
Registration No. CNAS L20164  
Accreditation Criteria: ISO/IEC 17025:2017 and relevant requirements of CNAS  
Effective Date: 2024-02-22      Expiry Date: 2030-02-21

SCHEDULE 3    ACCREDITED TESTING SCOPE

| № | Test Object          | Item/Parameter |                                 | Standard or Method                                                        | Note                                                                                           | Effective Date |
|---|----------------------|----------------|---------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------|
|   |                      | №              | Item/ Parameter                 |                                                                           |                                                                                                |                |
| 1 | Electronic component | 1              | High Temperature Operating Life | Temperature,Bias,and    Operating    life    JESD22-A108G:2022<br>4.2.3.2 | Accredited only for:<br>inner case dimensions :<br>600mm×830mm×800mm;<br>Temperature: 25℃～180℃ | 2024-02-22     |
|   |                      | 2              | Low Temperature Operating Life  | Temperature,Bias,and    Operating    life    JESD22-A108G:2022<br>4.2.3.2 | Accredited only for:<br>inner case dimensions :<br>600mm×83                                    | 2024-02-22     |



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| № | Test Object | Item/Parameter |                               | Standard or Method                                                        | Note                                                                                                                                                                                            | Effective Date |
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|   |             | №              | Item/ Parameter               |                                                                           |                                                                                                                                                                                                 |                |
|   |             |                |                               |                                                                           | 0mm×800mm;<br>Temperature: -70℃~0℃                                                                                                                                                              |                |
|   |             | 3              | High Temperature Reverse Bias | Temperature,Bias,and 4.2.3.3 Operating life JESD22-A108G:2022             | Accredited only for:<br>inner case dimensions :<br>600mm×600mm×1200mm and 600mm×600mm×600mm<br>Temperature: 25℃~200℃;<br>inner case dimensions :<br>600mm×830mm×800mm;<br>Temperature: 25℃~180℃ | 2024-02-22     |
|   |             |                |                               | DEPARTMENT OF DEFENSE TEST METHOD STANDARD ENVIRONMENTAL TEST METHODS FOR | Accredited only for:                                                                                                                                                                            | 2024-02-22     |



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|---|-------------|----------------|-------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
|   |             | №              | Item/ Parameter               |                                                                                    |                                                                                                                                                                                                                                                                                 |                |
|   |             |                |                               | SEMICONDUCTOR DEVICES PART 1: TEST METHODS<br>1000 THROUGH 1999 MIL-STD-750-1:2012 | Method<br>1038.5 A<br>and 1039.4<br>A;<br>inner case<br>dimensions<br>:<br>600mm×60<br>0mm×1200<br>mm and<br>600mm×60<br>0mm×600<br>mm<br>Temperatur<br>e: 25°C~<br>200°C;<br>inner case<br>dimensions<br>:<br>600mm×83<br>0mm×800<br>mm;<br>Temperatur<br>e:<br>25°C~180<br>°C |                |
|   |             | 4              | High Temperature<br>Gate Bias | Temperature,Bias,and    Operating    Life    JESD22-A108G:2022<br>4.2.3.4          | Accredited<br>only for:<br>inner case<br>dimensions                                                                                                                                                                                                                             | 2024-02-22     |



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|   |             | №              | Item/ Parameter                                      |                                                                        |                                                                                                                         |                |
|   |             |                |                                                      |                                                                        | :<br>600mm×600mm×600mm<br>Temperature: 25 °C~200 °C                                                                     |                |
|   |             | 5              | Temperature Cycling                                  | Temperature Cycling JESD22-A104F.01:2023                               | Accredited only for:<br>inner case dimensions :500mm×600mm×700mm<br>Temperature: -70°C~150°C                            | 2024-02-22     |
|   |             | 6              | Accelerated Moisture Resistance - Unbiased Autoclave | Accelerated Moisture Resistance - Unbiased Autoclave JESD22-A102E:2015 | Accredited only for:<br>inner case dimensions : φ 420mm×D 657mm (884.4L);<br>Temperature: 105°C~150°C; Humidity: 65%RH~ | 2024-02-22     |



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|   |             | №              | Item/ Parameter                                                |                                                                                     |                                                                                                                                                                                     |                |
|   |             |                |                                                                |                                                                                     | 100 %RH;<br>Pressure:<br>7.7kPa~<br>230kPa                                                                                                                                          |                |
|   |             | 7              | Highly Accelerated Temperature and Humidity Stress Test (HAST) | Highly Accelerated Temperature and Humidity Stress Test (HAST) JESD22-A110E.01:2021 | Accredited only for:<br>inner case dimensions :<br>φ420mm×<br>D657mm<br>(884.4L);<br>Temperature: 105°C~<br>150°C;Humidity:<br>65%RH~<br>100 %RH;<br>Pressure:<br>7.7kPa~<br>230kPa | 2024-02-22     |
|   |             | 8              | Accelerated Moisture Resistance -Unbiased HAST                 | Accelerated Moisture Resistance -Unbiased HAST JESD22-A118B.01:2021                 | Accredited only for:<br>inner case dimensions :<br>φ420mm×<br>D657mm<br>(884.4L);<br>Temperature                                                                                    | 2024-02-22     |



| № | Test Object | Item/Parameter |                                                  | Standard or Method                                                                                                                                                                    | Note                                                                                                                                                                           | Effective Date |
|---|-------------|----------------|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
|   |             | №              | Item/ Parameter                                  |                                                                                                                                                                                       |                                                                                                                                                                                |                |
|   |             |                |                                                  |                                                                                                                                                                                       | e: 105°C~150°C;Humidity: 65%RH~100 %RH; Pressure: 7.7kPa~230kPa                                                                                                                |                |
|   |             | 9              | Steady-State Temperature-Humidity Bias Life Test | Environmental testing for electric and electronic products——Part 2 :Test methods-Test Cy:Damp heat ,steady state,accelerated test primarily intended for components GB/T 2423.50-2012 | Accredited only for: inner case dimensions : 600mm×850mm×800mm; Temperatur e: 25°C~180°C; Humidity:25%RH~95%RH; inner case dimensions :600mm×830mm×800mm; Humidity:10%RH~95%RH | 2024-02-22     |



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|   |             | №              | Item/ Parameter                  |                                                                       |                                                                                                                                                                                                                                     |                |
|   |             |                |                                  |                                                                       | Temperature: 25°C ~ 180°C;                                                                                                                                                                                                          |                |
|   |             |                |                                  | Steady-State Temperature-Humidity Bias Life Test JESD22-A101D.01:2021 | Accredited only for:<br>inner case dimensions : 600mm×850mm×800mm;<br>Temperature: 25°C ~ 180°C;<br>Humidity: 25%RH ~ 95%RH;<br>inner case dimensions : 600mm×830mm×800mm;<br>Humidity: 10%RH ~ 95%RH<br>Temperature: 25°C ~ 180°C; | 2024-02-22     |
|   |             | 10             | Temperature and Humidity Storage | Steady-State Temperature-Humidity Bias Life Test JESD22-A101D.01:2021 | Accredited only for:                                                                                                                                                                                                                | 2024-02-22     |



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| № | Test Object | Item/Parameter |                               | Standard or Method                                                                                                 | Note                                                                                                                                                                        | Effective Date |
|---|-------------|----------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
|   |             | №              | Item/ Parameter               |                                                                                                                    |                                                                                                                                                                             |                |
|   |             |                | Life                          |                                                                                                                    | inner case dimensions : 600mm×850mm×800mm; Temperature:25℃~180℃; Humidity:25%RH~95%RH; inner case dimensions :600mm×830mm×800mm; Humidity:10%RH~95%RH Temperature:25℃~180℃; | 2024-02-22     |
|   |             | 11             | High Temperature Storage Life | Environmental testing for electric and electronic products-Part 2: Test methods-Tests B: Dry heat GB/T 2423.2-2008 | Accredited only for: inner case dimensions : 600mm×830mm×800mm                                                                                                              |                |



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|---|-------------|----------------|------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------------|
|   |             | №              | Item/ Parameter              |                                                                                                             |                                                                                                                                    |                |
|   |             |                |                              | High Temperature Storage Life JESD22-A103E.01:2021                                                          | mm;<br>Temperature: 25°C~180°C<br>Accredited only for:<br>inner case dimensions :<br>600mm×830mm×800mm;<br>Temperature: 25°C~180°C | 2024-02-22     |
|   |             |                |                              | Environmental testing for electric and electronic productsPart 2:Test methods-Tests A:Cold GB/T 2423.1-2008 | Accredited only for:<br>inner case dimensions :<br>600mm×830mm×800mm;<br>Temperature: -70°C~0°C                                    | 2024-02-22     |
|   |             | 12             | Low Temperature Storage Life | Low Temperature Storage Life JESD22-A119A:2021                                                              | Accredited only for:<br>inner case dimensions                                                                                      | 2024-02-22     |



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|   |             | №              | Item/ Parameter             |                                                                                                                                                           |                                                                                                                  |                |
|   |             |                |                             |                                                                                                                                                           | :<br>600mm×830mm×800mm;<br>Temperature: -70°C~0°C                                                                |                |
|   |             | 13             | Intermittent Operation Life | DEPARTMENT OF DEFENSE TEST METHOD STANDARD ENVIRONMENTAL TEST METHODS FOR SEMICONDUCTOR DEVICES PART 1: TEST METHODS 1000 THROUGH 1999 MIL-STD-750-1:2012 | Accredited only for:<br>Method 1037.3; Junction Temperature Change ≥100°C; Switching time >30s                   | 2024-02-22     |
|   |             |                |                             | FAILURE MECHANISM BASED STRESS TEST QUALIFICATION FOR DISCRETE SEMICONDUCTORS IN AUTOMOTIVE APPLICATIONS AEC Q101 Rev-E:2021                              | Accredited only for:<br>Group A, Group B, Group C (RSH); Junction Temperature Change ≥100°C; Switching time >30s | 2024-02-22     |



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|   |             | №              | Item/ Parameter |                                                                                                     |                                                                                                                                                                                                                                                                                     |                |
|   |             | 14             | Power Cycling   | Power Cycling JESD22-A122A:2016                                                                     | Accredited only for: Junction Temperature Change $\geq 100^{\circ}\text{C}$ ; Current $< 3000\text{A}$ ; Switching time $> 1\text{s}$                                                                                                                                               | 2024-02-22     |
|   |             | 15             | Precondition    | Preconditioning of Nonhermetic Surface Mount Devices Prior to Reliability Testing JESD22-A113I:2020 | Accredited only for: Reflow Soldering: Temperature: $150^{\circ}\text{C} \sim 265^{\circ}\text{C}$ ; inner case dimensions :600mmx830mmx800mm; Temperature: $-70^{\circ}\text{C} \sim 180^{\circ}\text{C}$ ; Temperature: $150^{\circ}\text{C} \sim 265^{\circ}\text{C}$ inner case | 2024-02-22     |



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|   |             | №              | Item/ Parameter |                                                                                                                            |                                                                                                                                                                                                          |                |
|   |             |                |                 |                                                                                                                            | dimensions<br>:<br>600mm×830mm×800mm;<br>Temperatur<br>e:25°C~180°C;<br>Humidity:10%RH~95%RH;<br>inner case dimensions<br>:<br>600mm×850mm×800mm;<br>Temperatur<br>e:25°C~180°C;<br>Humidity:25%RH~95%RH |                |
|   |             |                |                 | Moisture/Reflow Sensitivity Classification for Nonhermetic Solid State Surface Mount Devices JEDEC J-STD-020F:2022 8.2~8.8 | Accredited only for:<br>Reflow Soldering: Temperatur<br>e: 150°C~265°C;                                                                                                                                  | 2024-02-22     |



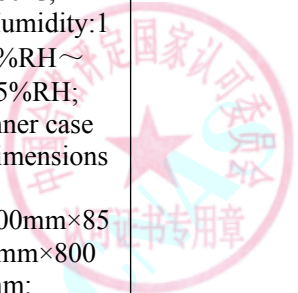
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|   |             | №              | Item/ Parameter |                    |                                                                                                                                                                                                                                              |                |
|   |             |                |                 |                    | inner case dimensions :600mmx830mmx800mm; Temperature: -70℃~180℃; Temperature: 150℃~265℃<br>inner case dimensions : 600mm×830mm×800mm; Temperature:25℃~180℃; Humidity:10%RH~95%RH;<br>inner case dimensions : 600mm×850mm×800mm; Temperature |                |

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|   |             | №              | Item/ Parameter |                                                                                                                                                                          |                                                                                                                                                                                                                                 |                |
|   |             |                |                 |                                                                                                                                                                          | e:25℃~180℃;<br>Humidity: 25%RH~95%RH                                                                                                                                                                                            |                |
|   |             |                |                 | Semiconductor devices--Mechanical and climatic test methods-Part 30;Preconditioning of non-hermetic surface mount devices prior to reliability testing GB/T 4937.30-2018 | Accredited only for:<br>Reflow Soldering: Temperature: 150℃~265℃;<br>inner case dimensions :600mmx830mmx800mm;<br>Temperature: -70℃~180℃;<br>Temperature: 150℃~265℃<br>inner case dimensions :600mm×830mm×800mm;<br>Temperature | 2024-02-22     |



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| № | Test Object | Item/Parameter |                 | Standard or Method                                                                                                                                                                | Note                                                                                                                                      | Effective Date |
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|   |             | №              | Item/ Parameter |                                                                                                                                                                                   |                                                                                                                                           |                |
|   |             |                |                 |                                                                                                                                                                                   | e:25°C~180°C;<br>Humidity:10%RH~95%RH;<br>inner case dimensions : 600mm×850mm×800mm;<br>Temperatur e:25°C~180°C;<br>Humidity: 25%RH~95%RH |                |
|   |             |                |                 | Semiconductor devices-Mechanical and climatic test methods-Part 20:Resistance of plastic encapsulated SMDs to the combined effect ofmoisture and soldering heat GB/T 4937.20-2018 | Accredited only for: Reflow Soldering: Temperatur e: 150°C~265°C;<br>inner case dimensions :600mmx830mmx800mm;<br>Temperatur              | 2024-02-22     |



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|---|-------------|----------------|-----------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
|   |             | №              | Item/ Parameter |                    |                                                                                                                                                                                                                                                |                |
|   |             |                |                 |                    | e: -70℃~180℃;<br>Temperature: 150℃~265℃<br>inner case dimensions:<br>600mm×830mm×800mm;<br>Temperature: 25℃~180℃;<br>Humidity: 10%RH~95%RH;<br>inner case dimensions:<br>600mm×850mm×800mm;<br>Temperature: 25℃~180℃;<br>Humidity: 25%RH~95%RH |                |

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