



Report No. APR-23-H0273

Date: Sep.5,2023

# RENESAS SEMICONDUCTOR RELIABILITY REPORT

APPLICATION: Standard

SERIES: CR2AS-8UE

DEVICE: CR2AS-8UE-T13#B00

Quality Assurance Div.  
Renesas Electronics Corporation

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# 1.RELIABILITY TEST

| ITEM   | TEST CONDITION  | Test Results      |                   |
|--|---|-------------------|-------------------|
|  |   | NUMBER OF SAMPLES | NUMBER OF FAILURE |
| Soldering Heat   | Reflow(260°Cmax,255°C×10s, 2times)  | 22                | 0                 |
| Solderability  | 245°C, 5s (Solder wetting area 95% or more)                                 | 22                | 0                 |
| High Temperature Bias  | Ta=125°C, V <sub>DRM</sub> =Maximum Rating (AC-peak), 1,000h                | 22                | 0                 |
| Continuous Operation   | Tj=125°C, I <sub>T(AV)</sub> =Maximum Rating, 1,000h                        | 22                | 0                 |
| High Temperature Storage Life  | Ta=125°C, 1,000h  | 22                | 0                 |
| Temperature Humidity Storage   | Ta=85°C, 85%RH, 1,000h  | 22                | 0                 |
| Temperature Cycle  | Ta=-40°C to +125°C, 200cycles   | 22                | 0                 |
| Electrostatic-Discharge(ESD)HBM  | C=100pF, R=1.5k ohm, ±1,000V  | 3                 | 0                 |
| Estimated failure rate   | Estimated failure rate : 10Fit or less<br>•Tj= 55°C •Ea = 0.7eV •C.L. = 60% |                   |                   |
| Reliability test results may include data from family representative products.<br><br><Judgement criteria><br>Electrical characteristics described in the delivery specification.<br>(Solderability test is excluded.)<br>I <sub>RRM</sub> , I <sub>DRM</sub> , V <sub>TM</sub> , V <sub>GT</sub> , I <sub>GT</sub><br>*However, I <sub>GT</sub> item free judgment. |   |                   |                   |