



Report APR-21-H0764
Date: 20/Dec./2021

RENESAS SEMICONDUCTOR RELIABILITY REPORT

SERIES: RV1S9353A

DEVICE: RV1S9353ACCSP-120V#SC0
RV1S9353ACCSP-120V#KC0
RV1S9353ACCSP-120C#SC0
RV1S9353ACCSP-120C#KC0

APPLICATION: Standard

IoT and Infrastructure Quality Assurance Department
Quality Assurance Division.
Renesas Electronics Corporation

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Reliability test result

Test Items	Test Conditions	Results Failure/Size	Notes
High temperature storage	Ta=150°C, t=1000h	0/22	
Low temperature storage	Ta=-55°C, t=1000h	0/22	
Temperature humidity bias	Ta=85°C/RH=85%, VDD1=VDD2=5.5V Vin+=400mV, 1kHz, t=1000h	0/20	
High temperature operating life	Ta=110°C, VDD1=VDD2=5.5V Vin+=400mV, 1kHz, t=1000h	0/20	
Autoclave	Ta=125°C, RH=100%, 233kPa, t=96h	0/22	
Temperature cycle	-55°C~150°C, 100cycles	0/22	
Electrostatic discharge (HBM Method)	C=100pF, 1.5kΩ, 2000V	0/5	
Solderability	245°C,5s Wet area 95% or more	0/22	
Resistance to Soldering Heat	260°C,10s,1time	0/22	
Estimated failure rate	Estimated failure rate: 10Fit Ta= 55°C, Ea=0.7eV, C.L.=60%		

MSL Preconditioning was performed prior to Temperature humidity bias, Autoclave and Temperature cycling.
Preconditioning Details: 125°C,24h→85°C,85%RH,168h→Reflow(260°C,10s,3times)

Reliability test results may include data from family representative products.

Criteria shall follow the electrical characteristics in Specifications, except for Solderability.

However, ΔPo shall be the initial value ± 50%.