



Report APR-21-H0736  
Date: 20/Dec./2021

# RENESAS SEMICONDUCTOR RELIABILITY REPORT

SERIES: RV1S9060A

DEVICE: RV1S9060ACCSP-10YC#KC0  
RV1S9060ACCSP-10YC#SC0  
RV1S9060ACCSP-10YV#KC0  
RV1S9060ACCSP-10YV#SC0

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%, VDD=6V, t=1000h	0/20	
High temperature operating life	Ta=125°C, IF=Maximum current within Diode Power Dissipation rating, 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, ΔIFHL shall be the initial value ± 50%.