

Product Change Notice (PCN)

Subject: Addition of RJH65T14DPQ-A0 Diode die Front-end Processing Factory

Publication Date: 11/21/2022

Effective Date: 6/30/2023

Revision Description:

Initial Release

Description of Change:

RJH65T14DPQ-A0 Diode die front-end processing factory will be added.

There are no changes for IGBT dies.

- Current : RSMC Takasaki
- Additional : RSMC Saijo

Affected Product List:

RJH65T14DPQ-A0#T0			

Reason for Change:

Due to the tight supply capacity of RSMC's Takasaki factory for Diode dies to this product, add the front-end process factories to ensure the stability of product supply.

Impact on Fit, Form, Function, Quality & Reliability:

This change has no impact on form, implementation, functionality, quality, or reliability.

Product Identification:

The orderable part number remains unchanged.

It can be identified by T/C (Manufacture lot and For Renesas Electronics management) in the label.

Please contact our sales representative.

Qualification Status: Please refer to the attached documents.

Sample Availability Date: Now Available. Please contact our sales representative.

Device Material Declaration: Materials can be provided. Please contact our sales representative.

- Note:
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For additional information regarding this notice, please contact your Renesas sales representative.



Report APR-22-H0486
Date: November 17, 2022

RENESAS SEMICONDUCTOR RELIABILITY REPORT

DEVICE: RJH65T14DPQ-A0#T0

APPLICATION: Standard

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Approved by Minoru. Oiso

M. Oiso

Quality Assurance Div.
Renesas Electronics Corporation

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(Rev.5.0-2 October 2020)

1.RELIABILITY TEST

No.	ITEM	TEST CONDITION	Test Results (NUMBER OF FAILURE/NUMBER OF SAMPLES)
1	Soldering Heat	Lead Solder DIP (260°Cmax, 10s)	0/22
2	Solderability	245°C, 5s (Solder wetting area 95% or more)	0/22
3	High Temperature Bias	Tj=175°C, VCES of Maximum Rating, 1,000h	0/22
4	High Temperature Storage Life	Ta=150 °C, 1,000h	0/22
5	High Temperature High Humidity Reverse Bias	Ta=85 °C, 85%RH, VCES of Maximum Rating, 1,000h	0/22
6	Temperature Cycle	Ta=-55°C to +150°C, 200cycles	0/22
7	Intermittent operating Life	ΔTc=100°C, 10kcycles	0/22
8	Electrostatic-Discharge(ESD)HBM	C=100pF, R=1.5k ohm, ±1,000V	0/3
9	Estimated failure rate	Estimated failure rate : 10Fit or less •Tj= 55°C •Ea = 0.8eV •C.L. = 60%	
	<p>Reliability test results may include data from family representative products.</p> <p><Judgement criteria> Electrical characteristics described in the delivery specification. (Solderability test is excluded.)</p>		