Reliability Test Result

Product	Schottky barrier Diode	Package	Through hole molded package

Life Test

TEST ITEM	TEST CONDITION	STANDARD	n[pcs] (Sample QTY.)	Pn[pcs] (NG QTY.)
High temperature reverce bias	Tjmax、VR=VR Max、 1000h	JESD22-A108	77	0
High humidity,High temp. reverse bias	85±2°C、Rh=85±5%、 VR = less than VR MAX※, 1000h	JESD22-A101	77	0
Temperature cycle	-55±5℃(30min.)⟷150±5℃(30min.)、 200cyc	JESD22-A104	77	0
Pressure cooker test (Autoclave)	Ta=121±2℃、Rh=100%、203kPa、 100h	JESD22-A102	77	0
Intermittent Operation Life or Power and Temperature Cycle	Ta=25±5°C、 ⊿Tj≧100℃、 Duration: 15000cycles Ta＝-40(＋0/-10)℃～+85(+10/-０)℃、 ON 300s/OFF 300s per cycle Duration: 6000cycles	MIL-STD-750 Method 1037 JESD22 A-105	77	0

※Conducted under the VR in which thermal runaway doesn't occur.

Stress Test

TEST ITEM	TEST CONDITION	STANDARD	n[pcs] (Sample QTY.)	Pn[pcs] (NG QTY.)
Solder heat resistance 1	260±5°C、10sec.、Solder - bath	JESD22-B106D	30	0
Solder heat resistance 2	350±10°C、3s.、Dipping leads into solder bath at 350±10°C.	JESD22-B106D	30	0
Solderability	245±5°C、3s.、Solder-Bath	JESD22-B102	10	0
Terminal strength (Pulling)	Pull force fixed body ； 20N、10s	JEITA ED-4701/ 400-401	10	0
Terminal strength (Bending)	Bend force; 10N, 90°, 2times	JEITA ED-4701/ 400-401	10	0

Measurement Item & Criteria

Item	Condition	Criteria
Forward Voltage（ＶＦ）	Par specification	Less than x1.1 of Initial value
Reverse Current（ＩＲ）	Par specification	Less than x2 of Initial value
Appearance	Visual check	No outstanding change in physical
Solderability	Visual check	More than 95% of the electrode must be covered with solder

JUDGEMENT

No failure is observed from each test item.

Notes

1) The information contained herein is subject to change without notice.

2) Before you use our Products, please contact our sales representative and verify the latest specifications.

3) Although ROHM is continuously working to improve product reliability and quality, semiconductors can break down and malfunction due to various factors.
Therefore, in order to prevent personal injury or fire arising from failure, please take safety measures such as complying with the derating characteristics, implementing redundant and fire prevention designs, and utilizing backups and fail-safe procedures. ROHM shall have no responsibility for any damages arising out of the use of our Poducts beyond the rating specified by ROHM.

4) Examples of application circuits, circuit constants and any other information contained herein are provided only to illustrate the standard usage and operations of the Products. The peripheral conditions must be taken into account when designing circuits for mass production.

5) The technical information specified herein is intended only to show the typical functions of and examples of application circuits for the Products. ROHM does not grant you, explicitly or implicitly, any license to use or exercise intellectual property or other rights held by ROHM or any other parties. ROHM shall have no responsibility whatsoever for any dispute arising out of the use of such technical information.

6) The Products are intended for use in general electronic equipment (i.e. AV/OA devices, communication, consumer systems, gaming/entertainment sets) as well as the applications indicated in this document.

7) The Products specified in this document are not designed to be radiation tolerant.

8) For use of our Products in applications requiring a high degree of reliability (as exemplified below), please contact and consult with a ROHM representative : transportation equipment (i.e. cars, ships, trains), primary communication equipment, traffic lights, fire/crime prevention, safety equipment, medical systems, servers, solar cells, and power transmission systems.

9) Do not use our Products in applications requiring extremely high reliability, such as aerospace equipment, nuclear power control systems, and submarine repeaters.

10) ROHM shall have no responsibility for any damages or injury arising from non-compliance with the recommended usage conditions and specifications contained herein.

11) ROHM has used reasonable care to ensure the accuracy of the information contained in this document. However, ROHM does not warrants that such information is error-free, and ROHM shall have no responsibility for any damages arising from any inaccuracy or misprint of such information.

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ROHM SEMICONDUCTOR

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